### U. S. DEPARTMENT OF LABOR JAMES J. DAVIS, Secretary

#### BUREAU OF LABOR STATISTICS

ETHELBERT STEWART, Commissioner

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# LABOR REVIEW

Vol. XVIII, No. 4



April, 1924

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Convict labor: 1923

Shifting of occupations among industrial policyholders

German Metal Workers' Federation

Land law of Esthonia

Labor law of Durango, Mexico

Steadying the worker's income—Unemployment insurance plans

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## MONTHLY LABOR REVIEW

VOL. XVIII, NO. 4

WASHINGTON

APRIL, 1924

#### Convict Labor: 1923.

IN THE latter part of 1923 the Bureau of Labor Statistics began the collection of data concerning prison labor production in the United States and an abridged report is here presented. A full report will be published later as a bulletin.

The study covers only State and Federal prisons for civilian adults. It does not include juvenile reformatories or county or city institu-

tions or Federal military prisons.

The primary purpose of the inquiry is to show the kind and amount of goods produced by prison labor and the systems under which the

work was done.

A total of 104 institutions were canvassed, 101 being State institutions and 3 Federal. All States, and also the District of Columbia, were covered. The New Castle County (Delaware) workhouse is included, as it serves the purpose of a State prison. The institutions bear various titles, as prison, penitentiary, reformatory, house of correction, workhouse, farm, camp, etc. In some States prison units are reported separately; in other States they are combined, as will appear in the tables, depending on the method of prison accounting.

The report for each institution covers all of the operations during one year. It was necessary to take the report for the last fiscal year for which figures were available. The fiscal years reported ended variously from June 30, 1922, to September 30, 1923. For 61 reports

the year ended June 30, 1923.

The average number of convicts found in the institutions reported was 84,761, of which 79,350 were in State institutions and 5,411 in Federal prisons. Of these 84,761 convicts 51,262, or 60 per cent, were employed at productive labor. This number does not include convicts engaged in domestic prison duties, like cooking, washing, cleaning, etc. Of the 51,262 convicts employed at productive labor, 6,083, or 12 per cent, were working under the contract system; 3,039, or 6 per cent, under the piece-price system; 13,535, or 26 per cent, under the public-account system; 18,842, or 37 per cent, under the State-use system; and 9,763, or 19 per cent, under the public works and ways system. No figures were reported by any of these institutions as to convicts employed under the lease system.

The relative importance of the several systems is further indicated by the value of the goods produced, as shown by the totals in the

accompanying tables. The systems are defined as follows:

Contract system.—Under this system the State feeds, clothes, houses, and guards the convict. To do this the State maintains an institution and a force of guards and other employees. A contractor engages with the State for the labor of the convicts, which is performed in or near the institution. The contractor pays the State a stipulated amount per capita for the services of the convict, usually supplies his own raw material, and superintends the work.

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Piece-price system.—This system differs from the contract system only as to superintending the work and determining the speed at which convicts must work. The State maintains the institution and feeds, clothes, and guards the convicts. The contractor supplies the raw material and pays the State an agreed amount for the work done on each piece or article manufactured by the convicts. The supervision of the work is generally performed by a prison official, although sometimes by the contractors. The officials of the prison not only maintain discipline, but dictate the daily quantity of work required.

Public-account system.—So far as the convict is concerned, this system does not differ from the piece-price system, but for the institution it is an entirely different system. In the piece-price system the contractor finances the business and assumes all the chances of profit and loss. In the public-account system the State enters the field of manufacturing on its own account. It buys the raw material, manufactures and puts the product on the market, and assumes all the risk of conducting a manufacturing business. The State has the entire care and control of the convicts, and with them conducts an ordinary factory. The institution may sell the product direct or through an agent.

State-use system.—Under this system the State conducts a business of manufacture or production, as in the public-account system, but the use or sale of the goods produced is limited to the same institution or to other State institutions. The principle of the system is that the State shall produce articles of merchandise for its own consumption alone.

Public works and ways system.—This system is very nearly like the State-use system. Under this system the labor is not applied to the manufacture of articles of merchandise, but to the construction and repair of the prison or other public buildings, roads, parks, breakwaters, or other permanent public structures. Possibly a lessee may be constructing a road with hired convict labor; in such case the road would be classed under the lease system, as the system, not the product, is here considered.

Lease system.—Under this system the State enters into a contract with a lessee, who agrees to receive the convict, to feed, clothe, house, and guard him, to keep him at work, and to pay the State a specified amount for his labor. The State reserves the right to make rules for the care of the convict and to inspect the convict's quarters and place of work. No institution is maintained by the State other than a place of detention, where the convicts can be held until placed in the hands of the lessee and in which to confine convicts who are unable to work.

Conditions are not always so clearly defined as the above definitions would indicate, and it was difficult to determine with entire satisfaction the classification assignment of certain items. Again, the major quantity of an article produced in an institution may fall under one system, with a minor surplus classed under another system. For example, an article may be produced primarily for State use, yet some of the commodity may be placed on the general market, making it fall under the public-account system.

Special agents of the bureau visited each institution, and practically all of the data were obtained from the several institutions or from contractors having work done therein under the contract or piece-price system. The States extended their official courtesy to the Federal

Government and complied with the request for information. In no instance was available information finally refused by the States. In some cases reports were prepared entirely by the institutions, but generally the bureau's agents did much or practically all of the work necessary in compiling the report from the available records. In a very few instances information as to the value of the goods produced was refused by contractors, making it necessary to make estimates of valuation based on inspection of the product and on such information as could be gathered in the general market

Herewith five tables are presented.

Table 1.—The number of convicts or inmates, as now frequently called, varies of course during the year. The second section of this table shows the average number in each of four classes, namely, employed in productive labor, engaged in prison duties, sick, and idle. This classification varies as between institutions. When there is opportunity to provide labor for inmates, the number idle is reduced to as low a figure as possible and the number engaged in prison duties is reduced to the lowest number possible. However, if labor is not available, more inmates are put on routine prison duties and more become idle. The third section of Table 1 itemizes by system the average number of convicts employed at productive labor.

Table 2.—Records were much more satisfactory for goods sold than for goods produced. Often the two items were practically the same. Hence, figures are here given for goods sold that were produced under the public-account, piece-price, and contract systems. The table also gives the value of goods used in the same or other State institutions, that were produced under the State-use and piece-

price and public works and ways systems.

The amount paid by contractors for the labor of convicts who were employed under the piece-price or the contract system is the amount received by the institution during the year. As sales do not necessarily coincide with payments for labor, the figures can not be put in absolute comparison with the figures for sales.

Table 3 summarizes by industry the details shown in Table 4.
Table 4 shows by institutions the industries operated under the State-use, public-account, piece-price, and contract systems, the average number of convicts employed in each industry, and the value

of the goods produced.

With very slight exceptions, the table covers only goods that are consumed as distinguished from public works and ways construction or, in other words, public buildings and roads, for which see Table 5.

Some industries are seasonal and some were in operation less than a year. For such industries the number of convicts employed has been reduced to a full year equivalent. A subtotal is given for value of goods produced under the public-account, piece-price, and contract systems, which goods enter directly into the competitive market. The value of goods used by the State, produced under the State-use system, is given in a separate column.

Table 5 shows by States the average number of convicts employed under the public works and ways system and the value of the buildings or roads constructed by such convicts. The table shows as clearly as could be determined the value of the construction, including both material and labor, thus making the valuation figures on the same basis as the figures for goods produced under the other systems.

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tind of the control o	Nump	Number of convicts in insti		tutions.	Аув	Average number of convicts during year.	er of convic	ts during y	rear.	Average	number o	Average number of convicts at productive labor, by system under which employed.	at produc h employe	ive labor, d.
State.	At beginning of year,	Received during year.	Dis- charged during year.	At close of year.	Em- ployed at pro- ductive labor.	Engaged in prison duties.	Sick,	Idle,	Total.	State use.	Public works and ways.	Public account.	Piece price.	Contract.
Alabama. Arizona. Arkansas.	2, 755 399 1, 283	1,186	878 210 1.037		2, 558 56 1.053	355 306 153	82128	6		534 19 156	34	276		1,479
California. Colorado. Connecticut.	3, 760 892 987	2,001 752 364	1,768	3,993 1,048 837	2,541 795 528	1,096 161 276	127 21 76	884	3,841 1,003 916	1,095	613 379	88 S E	82.68	
Delaware. District of Columbia. Florida Georgia	4.888.2 4.888.2	1, 928	1,857	363 1,411	1,028 1,028	808 888 888 888 888 888 888 888 888 888	6 4 5 5 5 5 6 5 5 5 5 5 5 5 5 5 5 5 5 5	961	350 1, 426	8 22 8	763	21 98		205
Idahō Illinois Indiana	2,4 96 693 693 693	1,778 3,791	1,781 3,609	4, 466 2,85 2,874	2, 53 1,369	1,821	202	175 28 172		816 452		1,038	301	6 6 6 6 6 8 0 6 6 8 6 6 6 8 6 6 6 8 6 6 6 8 8 8 6 8 8 8
Lowa Kansas Kentucky	2,211	2883 2888 968	703 611 987	1,869	88.88 88.188	2887	782	14	1,851	530 618 155	100	233		1 638
Louisiana. Maine. Moreland	1,672	944	344	1,578		488	39			8128	455 12 12	633		87
Massachusetts.	3,736	,2,2, 881, 139	2,335	2, 056 3, 456	2, 210	828 544 544	185	25.089	3,381	638 443 838 838 838 838 838 838 838 838 8	76 <del>1</del>	322	9	1, 137
Misstsippl Missouri Missouri Missouri Montana	1,4,4, 3,72,6,	28. 28. 28. 28. 28. 28. 28. 28. 28. 28.	2,361 2,361	,1,2, 880 880 880 880 880 880	1,252	25 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	583.	127	2,828	255	3 43	1,001		
Nebraska. Nevada	23	113	888	794	627	168	08;	29	805	28.2		107	300	
New Jersey.	2,028	782	502	1,810	508	614	488	674	1,850	205		180		188
North Carolina	7,115	4,307	4,744	6,578	2,395	3,524	285	308	6,512	2, 243 255 255	152	121		9 8 0 9 0 0 9 0
Ohio Okloboma	4, 491	2,066	2,920	3,628	1,751	2,070	165	155	4, 128	1,751		ñx		* * * * * * * * * * * * * * * * * * * *

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78, 203		50,844	49, 942	79, 106	47,789	24, 103	2, 495	4,953	79, 350	16, 157	9,001	13, 519	3,039	6,083
2,334	334 351 855	1,847	1,548	2,633	2,066 1,270 127	309 1,077 175	1287	33 160	2,479	2,050 541 94	729	16	0	9 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
5,540		3,615	3, 539	5,616	3,463	1,561	107	280	5,411	2,685	762	16	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
83,748		54, 459	63,481	84,721	51, 262	25,664	2,602	5, 233	84,761	18,842	9,763	13, 535	3,039	6,083

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1,751

3,628

2, 157 1, 511 1, 516

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TABLE 2.—VALUE OF GOODS USED OR SOLD, CLASSIFIED BY SYSTEM UNDER WHICH PRODUCED IN STATE AND FEDERAL PENITENTIARIES, AND AMOUNT PAID FOR LABOR OF CONVICTS, BY STATE.

		Average num-		goods used d under—	Value of	goods sold which p	d, by systeroduced.	m under	
State.	Average number of convicts.	ber of con- victs	State- use system.	Public works and ways system.	Public account.	Piece price.	Contract.	Total.	Ame Paid stir tion labo conv
Alabama	2 088	2,553	\$199,486	\$1,112,872	\$837,778		\$4,262,361	\$5,100,139	81.00
Arizona	383	56	8,425	60,000	1,148		********	1.148	91,02
Arkansas	1 205	1,053	44,732	00,000	255, 891			255, 891	
California	3.841	2,541	331,142	770,000	900 718			200 718	
Colorado	1 003	795	159,908	725,000	37,470			37,470	1
Connecticut	916	528	75,012		38,004	\$2,308,103		2,346,107	125
Delaware	350	245	10,520		6,000		415, 141	421,141	1 38
Dist. of Columbia.	539	220	132, 479	165,000	********	\$2,308,103		*******	
Florida	1,426	1,028	120,372	2,038,318	41,106		********	41,106	
Georgia.	3.822	3,698	41,643	5,030,350	12,195		********	12, 195	
daho	280	42	13,738	*********	1 45 3017			#S 30117	
llinois	4,450	2,531	555, 296	500,000	200, 431	504,418	*********	1 945 070	
Indianalowa.	2,946	1,369	426, 880 229, 782	30,000 66,000	402 549	201, 218		403 549	117
Zongog	1,001	881	264, 483	195,000	310 507	*******		310 507	
Kansas Kentucky	2 043	1,695	119,911		6,063		6. 835. 246	6.841.309	417
Louisiana	1.596	1,110	43, 407	53, 291	294, 485	1,036	0,000,210	294, 485	
Maine	338	278	22,103	70,000	142,686		219,385	362,071	20
daryland	1,495	1,212	87,130	4,740	2,850		2,676,423	2,679,273	32
Maine Maryland Massachusetts	1,964	966	696, 115		442,850	1,036		443,886	
Michigan	3,381	2,110	619, 215	190,365	2,778,433			2,778,433	
Minnesota	1.488	875	200, 230	13,940	2,566,803		*******	2,566,803	
Mississippi Missouri	1,572	1,252	172,477		583,642			583,642	
Missouri	2,828	1,813	733,094	2,184	1,195,420			1, 195, 420	
Montana Vebraska	340	119	45,681	25,975	91	400 400		91	****
Vebraska	805	627	64,371		97,764	482,439	*********	580, 203	81
Vevada	147	30	20,490		2,267		022 000	2,207	****
New Hampshire	138	100	(1)		556		200,000	1 502	-01
New Jersey New Mexico	399	503	407,861	5,000	29 774	********	940	39 774	
New Mexico	6 519	193	1 698 105	161,105	178			178	
New York North Carolina	6,512	2,395 935	1,628,105 $120,658$	1,455,176	62,399	********	*********	62,399	****
North Dakota	220	122	23,749	1,100,110	337,724	*********		337,724	
Ohio.	4.128	1,751	1,267,890						
Ohio Oklahoma	2,051	1,271	189,680	54,360	328,028	1,363,014		1,691,042	99
Oregon	424	163	79,004	,	45,050			45,050	
Oregon Pennsylvania	4,336	987	770,814	365,318	12,031			12,031	
Rhode Island	570	329	57, 555		4,652	1,396,264		1,400,916	90
South Carolina	537	452	64,572		250,153	********	*******	250, 153	****
South Dakota Cennessee	309	232	49, 242		167, 267		********	167, 267	
ennessee	1,691	1,359	357,262		274,575	1,458,809		1,733,384	24
exas	3,474	2,749	324, 761	WF 000	494,054	********	• • • • • • • • •	494,051	****
tan	188	39	9,791	75,000	2,000	1,363,014 1,396,264 1,458,809 664,313	• • • • • • • • • • • • • • • • • • • •	672,563	****
ermont	399	243	8, 265	10,000		664,313		491, 499	3 4
Vashington	1,439 1,094	857 302	26,494 191,601	1,786,800 13,750	128, 287 7, 502	*********	363,212	7,502	1
Washington West Virginia	1,645	1,281	85,635	196,000	20,504		2,578,448	2,598,952	22
Visconsin	1,188	782	199,784	26,000	536, 456	1,149,030		2,366,932	20
Vyoming	399	264	20,311	20,000	1,862	1,696,014		1,697,876	4
Total	79,350	47,799	11,321,156	15,201,544	14,173,470	11,023,440	18,265,608	43,462,518	3,18
FEDERAL.									
Jeorgia	2,479	2,066	2,006,951		16,693			16,693	
Kansas	2,454	1,270	. 218, 887	65,056	10,000			20,000	
Washington	478	127	81,398	64,945					
			,	-					-
Total	5,411	3,463	2,307,236	130,001	16,693			16,693	1

<sup>1</sup> Unable to obtain estimate.

TABLE 3.—SUMMARY OF VALUE OF GOODS USED OR SOLD THAT WERE PRODUCED UNDER THE STATE-USE, PUBLIC-ACCOUNT, PIECE-PRICE, AND CONTRACT SYSTEMS, AND AMOUNT PAID FOR HIRE OF CONVICTS, BY INDUSTRY.

#### State institutions.

Inductor	Average num- ber of con-	Value of goods used pro- duced	Value of syste	goods or em under v	produce which prod	sold, by uced.	Amount paidinsti-
Industry.	victs em- ployed.	under State-use	Public account.	Piece price.	Contract.	Total.	tution for hire of convicts.
Bags, etc. (jute)		\$214	\$293,083		*******	\$293,083	
Baking, commercial	100	15, 454 7, 015	12,780		\$16,439	29, 219	90 450
Baskets Box shooks (knocked down)	96	11, 828	124, 685		<b>\$10, 203</b>	124, 685	\$9,456
Brick	896	329, 750	256, 800			256, 800	
Brooms and brushes	575 7	76, 301	271, 994 7, 000		1, 255, 745 1 55, 292	1, 527, 739 62, 292	81, 618 1, 191
Clothing: Aprons	252			\$329,365		329, 365	52,080
Children's play suits	135			1, 149, 030		1, 149, 030	61, 229
Garment making, unclassified.	325	261, 655	8,330			8, 330	
Overalls and jumpers	771	156, 347	759, 038	400 400	71, 212	830, 250	9, 79
Pants (work)	1,505 3,185	4, 846 38, 415	997 598	482, 439 7, 087, 319	3, 344, 200	3, 826, 645	381, 603
Shirts (work)	798	658, 046	117 083	1,001,019	0, 020, 001	117, 083	751, 581
Coal mining	1,965	244, 808	117, 083 234, 303		3, 626, 313	3. 860, 616	933, 28
Coffee roasting	2	29,040		*****			000, 20.
Coke making.	23		47,996			47, 996	
Farm, garden, dairy, and live stock.	11,824	3, 356, 057	2,178,905		<sup>8</sup> 4, 236	2, 183, 141	4,236
Farm implements	163 15	1,146 5,866	322, 045 10, 331			322, 045 10, 331	
Flags Flax industry	35	322	30, 487			30, 487	
Furniture	3, 157	443, 148	1, 578, 645	4 122, 242	826,750	2, 527, 637	120,99
mental	84		112, 766	59, 288		172,054	11,85
Handkerchiefs	12			*********	15,000	15,000	2,70
Harness	328	19 010	91,000	190,660	213, 210	494, 870	69, 56
Hollow ware Hosiery and underwear	324 1,036	13, 819 493, 714	142,757 17,143	374,606	228, 752 681, 446	371, 509 1, 073, 195	54, 613 203, 063
Laundry	32	17,900	9,667		001, 110	9,667	200,000
Leather findings	10	2.,000	14,500			14, 500	
Lime	39	14, 799	3,043			3,043	
Linens, etc., making and mending.	1, 164	782, 148	66,587		*********	66, 587	
Lumber	224	68, 345	24,397		636,048	660, 445	87, 84
Mats, automobile	2 85	62, 288	2,393 51,725		********	2, 393 51, 725	********
Printing	521	295, 650	28,604			28,604	
Quarrying granite and stone, and rock crushing.	1,392	6 557, 986	6 175, 404			175, 404	
Repair and shop work, miscel- laneous.	839	424,842	9,118			9, 118	
Road building	69	121,012	0,110		7 31, 240	31, 240	21, 50
Rug and mat weaving	63	6,662	304			304	
Sheet-metal work	74	47, 958					
Shoemaking	1,898	707, 361	409, 225	664, 313	3, 582, 187	4,655,725	213, 85
shoe repairing	187	150, 273	525	********		525	
Stoves	58 184	114, 577	** * * * * * * * * * * *	564 179		564, 178	89, 196
ugar	104		*128, 085	304, 110		8128, 085	00, 100
Tags, plates, signs, etc Textiles:	568	1, 221, 369	0 1, 036			1,036	
Cloth, cotton and wool	1,188	663, 973	19, 236			19, 236	******
Duck, cotton	260	20, 347	828, 552		********	828, 552	*******
Tobacco manufacturing, chewing	10	12 714					
and smoking	13 22	13, 714	13, 200	*******	********	13, 200	*******
Traps, wire	17	********	10,200		31, 245	31, 245	4, 98
Twine and rope	1,375	3, 173	5, 543, 160			5, 543, 160	
Whips	83				63, 200	63, 200	17, 56
Wood pulp	12				60,000	60,000	
Total	1038,784	11.321.156	14,173,470	11,023,440	18,265,608	43,462,518	3, 183, 835

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25, 892 00, 911 42,05383,835

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<sup>1</sup> Working for private contractors erecting prison buildings.
2 Coats, pants, vests, and overcoats.
3 Value of labor only.
4 Chair caning.
5 Includes sand and gravel, \$1,060.
6 Includes pulverized stone for fertilizer, \$21,346.
7 Value of labor working for private contractor.
8 Sold from previous year's production.
9 Includes \$865 sales to another State under competitive conditions.
10 Not including 14 convicts making auto suits, not sold.

TABLE 3.—SUMMARY OF VALUE OF GOODS USED OR SOLD THAT WERE PRODUCED UNDER THE STATE-USE, PUBLIC-ACCOUNT, PIECE-PRICE, AND CONTRACT SYSTEMS, AND AMOUNT PAID FOR HIRE OF CONVICTS, BY INDUSTRY—Concluded.

#### Federal institutions.

	Average Num- ber of	Value of goods used pro-	syste	f goods or em under v	produce which prod	sold, by uced.	Amount
Industry.	con- victs em- ployed.	duced under State-use	Public account.	Piece price.	Contract.	Total.	tution fo hire of convicts
Brick	45	\$9,372				*******	
Brooms and brushes	6	2,396					
Garment making, unclassified.	8	9, 164					
Overalls and jumpers	17	13, 401					
Tailoring	112	80, 651					
Work shirts	8	3,905					
Farm, garden, dairy, and live	D and Try		1				
stock	298	133, 957					
Furniture	16	7, 932					
Linens, etc., making and mending.	36	21, 449					
Printing.	33	6, 369					
Repair and shop work, miscel-		0,000					*******
laneous	338	204, 515					
Sand and gravel, unloaded	(11)	495	Total China Control	production of the second			
Shoemaking	57	41,319	1				
Shoe repairing	40	24, 671	1				
Textiles:				***************************************			
Duck	1,631	1, 710, 437	TO THE REAL PROPERTY.	1	Automotive (		
Duck remnants and waste	16	2, 120, 101	216 603			\$16, 603	
Underwear	12	12, 881	410,000				********
Wood, unloaded	28	24, 322	********				
TT OUT, UIIIUMEUM	20	22,022		**********		*********	*******
Total	2, 701	2, 307, 236	16, 693			16, 693	

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TABLE 4.—VALUE OF GOODS USED OR SOLD THAT WERE PRODUCED UNDER THE STATE-USE, PUBLIC-ACCOUNT, PIECE-PRICE, AND CONTRACT SYSTEMS, AVERAGE NUMBER OF CONVICTS EMPLOYED, AND AMOUNT RECEIVED FOR LABOR OF CONVICTS, BY INDUSTRY.

Alabama—State prison (including nine prisons with headquarters at Montgomery)—Montgomery.

Aver- age number	Value of	Value	of goods or em under v	r produce s which prod	old, by	Amount
of convicts em- ployed under systems named.	used produced under State-use	Public account.	Piece price.	Contract.	Total.	paid institu- tion for labor of convicts.
21 1,334 5	\$31, 022 17, 775			<b>\$</b> 3,626,313	<b>\$</b> 3,626,313	<b>\$9</b> 33, 28
508 16 145	105, 376 24, 966	\$9, 226		1 636, 048	9, 226	87, 84
260	20, 347	828, 552 837, 778		4, 262, 361	828, 552	1, 021, 13
	age number of convicts employed under systems named.	age number of convicts employed under systems named.  21	System   S	Value of goods used produced under systems named.   System under systems named.   Public account.   Piece price.	System under which produced sused produced under systems named.   System under which produced under systems named.   Public account.   Piece price.   Contract.	System under which produced   Public account   Piece price   Contract   Total   Sign   Sig

<sup>1</sup> Estimate.

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#### Arizona—State prison—Florence.

Industry. victs victs produced under ployed under ployed Public Piece Contract Total labor of		Aver- age number	Value of goods	Value syste	of goods or em under v	produce s which prod	old, by uced.	Amount
Tailoring   Arkansas	Industry.	em- ployed under systems	used produced under State-use	Public		Contract.	Total.	paid institu- tion for labor of convicts
Tailoring   Total   1,005   32,706   \$255,891   \$255,		1	\$50			******		********
Tailoring	Clothing: Garment making, unclassified.	1						
Stock	Tailoring.	4	2,000			*******	*******	*******
Clothing: Overalls and jumpers	chack	10	2, 548	\$1,148			\$1,148	
Total	Linens, etc., making and mending.	1	300					
Arkansas	Shoemaking	5	2, 832					
Clothing:   11   \$2,839	Total	22	8, 425	1,148			1, 148	
Overalls and jumpers. 11 \$2,839   Farm, garden, dairy, and live stock. 1,005   32,706   \$255,891   \$255,891   S255,891   Shoe repairing	Ark	ansas-	-Peniten	tiary—1	Little Ro	ck.	•	
1	Clathings							
Stock   Stoc	Overalls and jumpers	11	\$2,839					
Linens, etc., making and mending   24   4, 412	Farm, garden, dairy, and live	1-00*	00 700	#055 001			enss en1	
Total	Linens etc. making and mending							
California	Shoe repairing							
Clothing: Garment making, unclassified   13   \$7,286	Total	1, 053	44,732	255, 891	1		255, 891	
Farm, garden, dairy, and live stock.       115       23,592	Garment making, unclassified.							
California   State prison   San Quentin	Farm, garden, dairy, and live stock.							
Repair and shop work, miscellaneous.	ing	13						
Shoemaking	Repair and shop work, miscella-							
Shoe repairing								
California—State prison—San Quentin.   Span State prison—San Que								
Bags, etc. (jute)	Total	458	168,487	4,930			4,930	
Clothing:	Calife	ornia-	State pr	ison—S	an Quen	tin.	1	
Overalls, denim         15         3,615           Shirts, cotton         15         12,505           Tailoring         65         32,743         1,705           Farm, garden, dairy, and live stock         83         14,386           Flags         10         3,742           Furniture         326         65,775           Linens, etc., making and mending         20         4,295           Repair and shop work, miscellaneous         12         2,814           Rock, quarried and crushed         50         2,334           Shoe repairing         12         3,115	Bags, etc. (jute)	788	\$214	\$293,083	1			
Tailoring 65 32,743 1,705 1,705  Farm, garden, dairy, and live stock 83 14,386 Flags 10 3,742 Furniture 326 65,775 Linens, etc., making and mending 20 4,295 Repair and shop work, miscellaneous 12 2,814 Rock, quarried and crushed 50 2,334 Shoemaking 74 17,117 Shoe repairing 12 3,115	Overalls, denim			*******				
Stock				1.705			1.705	********
Flags	Farm, garden, dairy, and live	1.49	- Const	111111111111111111111111111111111111111				
Furniture								
10	Furniture					1		
12   2,814	ing.	20	4, 295					
Rock, quarried and crushed		12	2,814					
Shoemaking	Rock, quarried and crushed	50	2,334					
	Shoemaking							
Total	onos repairing	12	3,115	*******		********		
	Total	1,470	162,655	294,788			294,788	*******

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#### Colorado—Reformatory—Buena Vista.

	Average number	Value of	Value syste	of goods or em under v	r produce s which prod	sold, by uced.	Amount
Industry.	of convicts em- ployed under systems named.	goods used produced under State-use system.	Public account.	Piece price.	Contract.	Total.	paid institu- tion for labor of convicts.
Farm, garden, dairy, and live stock. Linens, etc., making and mending. Shoe repairing.	103 37 12	\$39,061 12,620 7,500			********		
Total	152	59, 181	24, 510			24, 510	
Colorac	do—Ste	ite penite	entiary-	-Canon	City.		
Clothing: Garment making, unclassified. Tailoring. Farm, garden, dairy, and live stock. Lime. Linens, etc., making and mending. Repair and shop work, miscel-	4 12 105 30 17	\$1,710 4,372 39,769 13,870 6,438	\$7,087			\$7,087	~
laneous.  Rock, quarried and crushed.  Shoemaking. Shoe repairing.	10 64 8 14	4,890 21,066 3,012 5,600	5,873			5, 873	*******
Total	264	100, 727	12,960			12,960	
Farm, garden, dairy, and live stock. Printing. Repair and shop work, miscellaneous Shoe repairing. Tags, automobile	40 20 45 8 30	\$14, 876 43, 961	9, 042 525			9, 042 525	*********
Total	143	58, 837	38,004			38,004	
Connecti Farm, garden, dairy, and live stock.		tate farn \$10,940	a for wo	men—N	iantic.	111112	******
Conne	ecticut-	-State p	rison—1	Wethersfi	eld.		
Clothing: Men's work shirts Farm, garden, dairy, and live stock.	353 11	<b>\$</b> 5, 235		1\$2,308,103		1\$2,308,103	\$125,04
Total	364	5, 235		2,308,103		2,308,103	125,04
Delawa	re—Co	unty wor	khouse-	-New Co	astle.		
					\$413,480	\$413,480	<b>\$36</b> , 45
Clothing: Men's cotton work pants Farm, garden, dairy, and live stock Linens, etc., making and mending.	199 38 8	\$6,020 4,500	\$6,000	*********	2 1,661	7,661	1,66

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#### District of Columbia-Reformatory-Lorton, Va.

	Aver- age number	Value of	Value syste	of goods or m under w	produce se hich produ	old, by uced.	Amount
Industry.	of convicts em- ployed under systems named.	used produced under State-use	Public account.	Piece price.	Contract.	Total.	paid institu- tion for labor of convicts.
Brooms Farm, gard <b>en, dairy, and live stoc</b> k	2 26	\$2,333 13,904					
Total	28	16, 237					
District of	Colum	bia-We	orkhouse-	-Occoqu	ian, Va.		
Brick Farm, garden, dairy, and live stock Linens, etc., making and mending. Lumber. Sand and gravel.	60 54 1 10 3	\$49,652 59,410 250 6,270 660					
Total	128	116, 242					
	Florida	-State	farm—R	aiford.			
Clothing: Garment making, unclassified. Farm, garden, dairy, and live stock Linens, etc., making and mending Repair and shop work, miscelia- neous.	33	\$362 92,819 4,737 17,100	\$41, 106	******	******	\$41, 106	
Shoe repairing	10 2	3, 926 1, 428					
Total	265	120, 372	41, 106			41, 106	
	Georgia	-State	farm—A	tlanta.			
Farm, garden, dairy, and live stock	440	\$41,643	<b>\$</b> 12, 195			\$12, 195	
Id	aho—S	state Pen	itentiary	-Boise			
Clothing: Garment making, unclassified. Tailoring. Farm, garden, dairy, and live stock Linens, etc., making and mending Repair and shop work, miscella- neous. Shoemaking Shoe repairing. Total.	(8) (8) 15 (8)	\$931 905 7,740 134 600 3,410 18	\$2,881 3,426 6,307			\$2,881 3,426 6,307	
10(81	42	13,738	0,307		*********	0,307	
IU	inois-	Women	's prison	-Joliet.		1	1
Farm. garden, dairy, and live stock Flags Laundry Linens, etc., making, and mending	1 5	\$466 539 17,000 989	\$60			\$60	
Total	9	18,994	60			60	1

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Farm, stock Furnit Hollow Linens Printin Repair

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Sh Ta Farm, stock Furnit Hosier Linen Monun

Printi Repai neot Road

Shoen Tags, Textil Cobac

and Twin

Baske Brick Broon Coal 1 Crush

Farm stoo Lime Lines

ing Repa neo

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#### Illinois-State penitentiary-Joliet.

human butching thank	Aver- age number	Value of	Value	of goods of am under v	r produce s which prod	sold, by uced.	Amou
Industry.	of convicts em- ployed under systems named.	goods used produced under State-use system.	Public account.	Piece price.	Contract.	Total.	paid institu tion fo labor o convict
Crushed stone Farm, garden, dairy, and live stock Furniture (hardwood) Furniture (reed) Repair and shop work, miscella-	122 94 176 181	\$41,856 40,669 10,119 273	\$122 62,899 74,760			62,899	*******
neousShoemaking	9 76	2,072 73,513					
Total	658	168,502	137,781			137,781	
Brick Crushed stone Farm, garden, dairy, and live stock Hosiery Linens, etc., making and mending Stone-dust fertilizer	40	\$8,000 29,093 80,032 155,555			*********	60,031	******
	592	272,680					-
Total Illin		Alle Light	90,376 rmatory-	Pontia	73231	90,376	******
Illin	ois—S	tate refo	rmatory-	Pontia	ec.		
Clothing: Tailoring Farm, garden, dairy, and live	0is—S	Alle Light	rmatory-	Pontia	c.		
Illin	ois—S	tate refo	rmatory-	Pontia	c.	\$35,528	
Clothing: Tailoring. Tailoring. Farm, garden, dairy, and live stock. Furniture (fiber). Linens, etc., making and mending. Printing and binding.	10 26 311 65 113	\$6,225 30,029 10,962 29,511	**************************************	Pontia	c.	<b>\$35,528</b>	
Clothing: Tailoring	10 26 311 65 113 32 557	\$6,225 30,029 10,962 29,511 5,739	**************************************	Pontia	c.	<b>\$35,528</b>	
Clothing: Tailoring. Tailoring. Farm, garden, dairy, and live stock. Furniture (fiber). Linens, etc., making and mending. Printing and binding. Shoemaking. Total.	10 26 311 65 113 32 557	\$6,225 30,029 10,962 29,511 5,739 82,466	**************************************	Pontia	c.	<b>\$35,528</b>	
Clothing: Tailoring	10 26 311 65 113 32 557	\$6,225 30,029 10,962 29,511 5,739 82,466 \$12,654	\$35,528 35,528 arm—V	Pontia	ic.	\$35,528 35,528	
Clothing: Tailoring. Tailoring. Farm, garden, dairy, and live stock. Furniture (fiber). Linens, etc., making and mending. Printing and binding. Total.  Ill Farm, garden, dairy, and live stock.  Indian Farm, garden, dairy, and live stock.	10 26 311 65 113 32 557  linois— 38	\$6,225 30,029 10,962 29,511 5,739 82,466 \$12,654	*35,528  35,528  37,528  **1,686  **rison—I	Pontia	ic.	\$35,528 35,528 \$1,686	
Clothing: Tailoring. Tailoring. Farm, garden, dairy, and live stock. Furniture (fiber). Linens, etc., making and mending. Printing and binding. Shoemaking. Total.  Ill Farm, garden, dairy, and live stock.  Indian  Farm, garden, dairy, and live	10 26 311 65 113 32 557  linois— 38	\$6,225 30,029 10,962 29,511 5,739 82,466 -State for \$12,654	\$35,528 \$35,528 35,528 arm—Ve	Pontia	ic.	\$35,528 35,528	

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#### Indiana-Reformatory-Jeffersonville.

	Aver- age number	Value of goods	Value	Amount			
Industry.	of con- victs em- ployed under systems named.	used produced under State-use system.	Public account.	Piece price,	Contract,	Total.	paid institu- tion for labor of convicts.
Brooms Farm, garden, dairy, and live stock Furniture (fiber chairs) Hollow ware Linens, etc., making and mending Printing. Repair and shop work, miscellaneous.	8 8 142 98 9 8	\$5,969 13,500 2,510 14,628 5,508 3,026	\$1,691 4,927 40,590 121,504			\$1,691 4,927 40,590 121,504	
Total	277	45, 141	168, 712			168, 712	

#### Indiana-State prison-Michigan City.

Clothing:							
Shirts. work	291	\$7,321:	\$121,815	\$323, 924		\$445,739	\$64,784
Tailoring. Farm, garden, dairy, and live	15	36, 307					
stock	21	20,631	8,200			8, 200	
Furniture (reed)	70	10, 100		121, 206		121, 206	40, 402
Hosiery	1	642					
Linens, etc., making and mending.	7	2,273					
Monuments, stone	18	, -, -, -,		59, 288		59, 288	11, 857
Printing	3	700		*********		********	
Repair and shop work, miscella-	0	0.100		1			
neous	9	6, 106	********	********			
Road signs	54.	103, 466	71 110			51 110	********
Shoemaking	50	27, 643	51, 110			51, 110	
Tags, automobile Textiles:	10	2,018	**********				
Cloth.cotton	13	3,200					
Tobacco manufacturing, chewing		** ***					
and smoking	. 7	11, 214			********	********	
Twine, binder	149		345, 183			345, 183	
Total	718	231, 621	526, 308	504, 418		1, 030, 726	117, 043

#### Indiana-State farm-Putnamville.

Baskets (willow)	46	\$498	\$12,780	1	\$12,780	
Brick and tile	92	51, 400 605			 7,709 65	
Coal mining.	(8)	53 31,558	15,622		 15,622	
Farm, garden, dairy, and live stock. Lime and pulverized limestone	87 2	51, 158 929	4°3, 980° 1, 208°		 43,980 1,208	
Linens, etc., making and mending.	4:	6,863			 	
Repair and shop work, miscella- neous	1	202	76		 76	
Total	289	143,266	41,440		 41,440	

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<sup>&</sup>lt;sup>3</sup>Less than 1.
<sup>4</sup>Includes \$62.85 for ice, and \$22.19 for lumber.

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#### Iowa-Men's reformatory-Anamosa.

The state of the s	Aver- age number	Value of goods	svste	of goods o	r produce s which prod	sold, by luced.	Amoun
Industry.	of convicts employed under systems named.	used produced under State-use system.	Public	Piece price.	Contract	. Total.	paid institu- tion for labor o convicts
Clothing:	10	<b>#2</b> 422	100.11				
Garment making, unclassified. Overalls, denim	10	\$3,432 2,587					
Unionalls	10	2, 587 3, 174					
Tailoring	-31	10, 400					
Farm, garden, dairy, and live stock.	186	70, 811	219 559			\$19,559	
Linens, etc., making and mend-	100	10,014	<b>41</b> 5,000	*********		419,000	******
ing	27	8,970					
Printing	48	14, 357					
Repair and shop work, miscel- laneous.	53	18,900					
Shoemaking	32	5,008					******
Shoe repairing	10	1,584					
Total	417	139, 223	19 559			19,559	
Total	11.	100, 220	10,000			10,000	
Clothing: Garment making, unclassified	1	\$1,970					
Tailoring Farm, garden, dairy, and live stock	3 58	7, 065 47, 970					1
Furniture (chairs)	194					461, 231	
Repair and shop work, miscel-	4	7,690	********			********	
laneous	10	6,000					
Shoemaking	1	3, 248					
Shoe repairing	2	3, 400					
Total	273	77,343	473, 307			473, 307	
Iowa—V	Vomen'	's reform	natory—1	Rockwell	City.		
Clothing: Garment making, unclassi-	-	2407					
Farm, garden, dairy, and live	7	\$437		*******		********	
stock	33	10, 597	\$676			\$676	
Linens, etc., making and mend-	- 11-3-1						
ing	33	2, 182					
Total	73	13, 216	676			676	
Kansa	s—Stat	e indust	rial farn	n—Lans	ing.		
		. 1				A	1
Farm, garden, dairy, and live stock	89	\$15, 260	\$1,447			\$1,447	
Linens, etc., making and mend-	00	\$10,200	41, 111		*********	<b>41</b> , 11.	
ing	10	2, 151					
Total.	99	17,411	1,447		Ene mil	1,447	
A Otali.	55	11, 111	1, 111		*********	2, 22,	

#### Kansas-State penitentiary-Lansing.

	Aver- age number	Value of goods	Value of goods or produce sold, by system under which produced.				Amount
Industry.	of convicts em- ployed under systems named.	used produced under State-use system.	Public	Piece price.	Contract.	Total.	paid institu- tion for labor of convicts.
Brick	104	\$35,000		*******			
Clothing: Garment making, unclassified.	16	10, 146					
Tailoring	15	9, 846				**********	
Coal mining	352	143, 053	\$49, 599			\$49, 599	
stock	101	30, 184					
Linens, etc., making and mending.	24	15, 304					
Shoe repairing	6	3,539					
Twine	101		259, 461		• • • • • • • • • •	259, 461	***********
Total	719	247, 072	309, 060			309, 060	

#### Kentucky-State penitentiary-Eddyville.

BroomsClothing:	65				1\$474, 560	1\$474, 560	\$22, 209
Shirts, work	230				¢629, 161	§ 629, 161	52, 200
stock	6 93	\$14, 250	<b>\$</b> 6, 063		213, 210	6, 063 213, 210	30, 427
Linens, etc., making and mending. Repair and shop work, miscella-	16	10, 000					
neous	13	10,000					
Total	423	34, 250	6, 063	*******	1, 316, 931	1, 322, 994	104, 845

#### Kentucky-State reformatory-Frankfort.

Brooms	72			 \$370,800	\$370,800	\$20, 278
Clothing: Overalls and jumpers	30	\$21,002				
Shirts	404	16, 375		 11,336,880	11.336.880	109,663
Farm, garden, dairy, and live	-	e 000		, ,	,,,	,
stock	7	6,800	********	 ********	********	
chairs)	177			 503,750	503, 750	36,500
Linens, etc., making and mend-	61	41,484				
Shoemaking	521	21, 202		 3, 306, 885	3, 306, 885	146, 493
Total.	1,272	85,661		 5, 518, 315	5, 518, 315	312,940

#### Louisiana-State penitentiary-Baton Rouge.6

Farm, garden, dairy, and live stock Linens, etc., making and mend-	633		\$166,400	 	\$166,400	
ing. Shoemaking	15	\$24,762		 		
Sugar	7	18, 645	7 128, 085	 *********	7 128, 085	
Total	655	43, 407	294, 485	 	294, 485	

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Amount Paid institu-tion for labor of onvicts.

Estimate.

Includes \$542, 224, estimate.

Headquarters of convict department. Convicts are distributed throughout the State on prison farms.

Sugar mill did not operate. This sugar sold from 1921 stock on hand.

#### Maine-State reformatory for women-Skowhegan.

	Aver- age number	Value of	Value	of goods or em under v	produce so which produ	old, by aced.	Amount	
Blay willed of too to soful any enter	Industry.	of convicts employed under systems named.	goods used produced under State-use system.	Public account.	Piece price.	Contract.	Total.	paid institu- tion for labor of convicts.
Linens, etc	den, dairy, and live	2 46	\$6,733	\$319 229			\$319 229	********
Total	AND THE RESERVE	48	6,733	548			548	

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#### Maine-State prison-Thomaston.

Brooms	75			 \$159, 385	\$159,385	\$20,720
Farm, garden, dairy, and live stock. Farm implements. Harness.	12 54 42	\$12,000	\$10,554 29,970 91,000		29,970	***********
Total	183	12,000	131, 524	 159, 385	290, 909	20,720

#### Maine-State reformatory for men-South Windham.

Building construction Farms, garden, dairy, and live	3		\$7,000	********	******	\$7,000	*********
stock	20 12	\$3,370			* 60, 000	3,614 60,000	(9)
Total	35	3,370	10,614		8.60, 000	70, 614	*******

#### Maryland-Maryland penitentiary-Baltimore.

Building construction	4				10 \$55, 292	10 \$55, 292	\$1, 191
Clothing: Men's cotton work pants	306		NOR IT		1, 050; 524	1, 050, 524	86, 923
Men's cotton work shirts	87				1 275, 000	1 275, 000	24, 558
Furniture (wood)	28 192		********		1 90, 000 228, 752	190, 000 228, 752	7, 911 54, 613
Linens, etc., making and mending.	4	\$16,000	**********	********	240, 102	220, 102	04, 016
Printing.	11	14, 962					********
Road building	33 125	16, 927		*********	11 16, 362	11 16, 362 12 275, 302	11, 518 33, 01
Tags, automobile	9	22, 967		********	210, 302		00,010
Total	799	70, 856			1, 991, 232	1, 991, 232	219, 73

Convicts are distributed throughout the State

<sup>&</sup>lt;sup>1</sup> Estimate.

<sup>8</sup> The company does not hold a contract for the labor. When in need of help, the company requests the superintendent of the reformatory that a certain number of men be sent him, who receive prevailing wages paid other employees. The institution merely deducts the per capita cost of maintenance, and the balance is given to inmate's dependent family.

<sup>8</sup> Amount not reported.

<sup>10</sup> Working for private contractors erecting prison buildings.

<sup>11</sup> Amount paid by contractor to institution and inmates.

<sup>12</sup> Includes estimates on boys' shoes at \$58,000.

#### Maryland-House of correction-Jessups.

Industry.	Average number of convicts employed under systems named.	Value of goods used produced under State-use system.	Value syste	old, by uced.	Amount		
			Public account.	Piece price.	Contract.	Total.	paid institu- tion for labor of convicts.
Baskets Clothing: Mens' cotton work pants	33 149				\$16,439 1 366,000	\$16, 439 1 366, 000	\$9,450 42,22
Mens' cotton work shirts	35 12 36 17	\$16, 274	<b>\$2</b> , 850		1 240,000 13 1,667 15,000 14 14,840 31,245	4,517 15,000 14 14,840 31,245	34, 19 1, 66 2, 70 9, 94 4, 98
Total	404	16, 274	2,850		685, 191	688, 041	105, 17

#### Massachusetts-State farm-Bridgewater.

Farm, garden, dairy, and live stock	151	<b>\$</b> 113,705	\$8,028	\$8,028	

#### Massachusetts-State prison-Charlestown (Boston).

Brooms and brushes	47	\$6,678	\$35, 230	 	<b>\$</b> 35, 230	
Clothing: Garment making, unclassified.	10	12,379	1,422		1,422	
Tailoring	10 75 42	73, 294	15, 197		15, 197	
Tailoring	40					*********
Hosiery Linens, etc., making and mend-	42	41,719	9,728	 	9,728	*****
ing	2	884	200	 	200	
Mattress making and upholster-						
ing	21	8,549	51,725	 	51,725	
Metal and aluminum ware	21 27	8, 200	12, 891		12,891	
Shoemaking	140	47,874	146, 130	 	146, 130	
Tags, automobile and motorcycle.	40	103, 236		 		
Total	404	302, 813	272, 523		272, 523	

#### Massachusetts-Reformatory-Concord Junction.

Farm, garden, dairy, and live stock. Furniture Chair caning. Lumber. Printing. Repair and shop work, miscellaneous. Textiles 15	44 55 6 6 1 1 202	\$20, 722 25, 246 2, 980 923 134, 894	\$41, 105 167	\$1,036	\$41, 105 1, 036 167	\$60
Total	315	184, 765	60, 508	1,036	 61, 544	6

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Estimate.
 Money paid for labor of convicts on farm work.
 Value of labor working for private contractor.
 Cotton yarn was spun by inmates.

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TABLE 4.—VALUE OF GOODS USED OR SOLD THAT WERE PRODUCED UNDER THE STATE-USE, PUBLIC-ACCOUNT, PIECE-PRICE, AND CONTRACT SYSTEMS, AVERAGE NUMBER OF CONVICTS EMPLOYED, AND AMOUNT RECEIVED FOR LABOR OF CONVICTS, BY INDUSTRY—Continued.

Massachusetts-Women's reformatory-Sherborn.

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	Aver- age number	Value of goods used produced under State-use system.	Value of goods or produce sold, by system under which produced.				
Industry.	of convicts em- ployed under systems named.		Public account.	Piece price.	Contract.	Total.	Amount paid institution for labor of convicts.
Clothing: Garment making, unclassified Tailoring Farm, garden, dairy, and live	4	\$10, 192 1, 516	\$6,908 71			\$6, 908 71	
stock	13 4 11 23	31, 765 1, 585 13, 014 12, 590	2,099 10,271 3,915 65,977			2,099 10,271 3,915 65,977	
Total	56	70,662	89, 241			89, 241	******

Farm, garden, dairy, and live stock Lumber	36	2,762	<b>\$</b> 12,550	 ********		
Cand and Braver		300		 	********	********
Total	40	24, 170	12, 550	 	12, 550	

#### Michigan—Reformatory—Ionia.

Clothing: Garment making, unclassified.	25	\$34, 299				
Farm, garden, dairy, and live stock.	86	45, 815		 		
Furniture (reed chairs, etc.)	318		\$166,094	 	\$166,094	
Mats, automobile	2		2,393	 	2,393	
Repair and shop work; miscella-			-,		2,000	
neous	17	6,768		 		
Shoemaking	29	21,075	562	 	562	
Soap making	17 29 10	29, 595		 		
Toys	22		13, 200	 	13, 200	
Total.	509	137, 552	182, 249		182, 249	

#### Michigan-State prison-Jackson.

Brick	107	\$4,100	\$144,210			\$144,210	
BrushesClothing:	14	1,622	10,401			10, 401	
Overalls and jumpers	7	81,981					
Tailoring	1	12, 254				********	
Farm, garden, dairy, and live				100			
stock	127	150, 567	115,748			115,748	
Farm implements	5	285	815			815	
Furniture (reed chairs)	158	*********	312, 841			312, 841	********
Hollow ware	7	3, 109	8, 362			8, 362	*******
Linens, etc., making and mending.	1	13,057	100 100			*********	*******
Monuments, memorial	43		102, 125		• • • • • • • • • • •	102, 125	
Printing	10	6, 191	*********				
neous	20	14, 793					
Tags, automobile	31	87,977	16 865		•••••	865	
Cotton cloth	16	4, 897			20 50000	7. 7.	
Twine	276		1,506,925			1,506,925	
Total	823	381, 329	2, 202, 292			2, 202, 292	

<sup>16</sup> Sales to another State under competitive conditions.

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CONVICT LABOR: 1923.

TABLE 4.—VALUE OF GOODS USED OR SOLD THAT WERE PRODUCED UNDER THE STATE-USE, PUBLIC-ACCOUNT, PIECE-PRICE, AND CONTRACT SYSTEMS, AVERAGE NUMBER OF CONVICTS EMPLOYED, AND AMOUNT RECEIVED FOR LABOR OF CONVICTS, BY INDUSTRY—Continued.

Michigan-State house of correction and branch prison-Marquette.

Industry.	Aver- age number	Value of goods used produced under State-use system.	Value syste	old, by uced.	Amount		
	of convicts em- ployed under systems named.		Public account.	Piece price.	Contract.	Total.	paid institu- tion for labor of convicts.
Box shooks (knocked down)		\$11,828	\$124,685		********	\$124,685	
Garment making, unclassified Overalls and jumpers Tailoring Farm, garden, dairy, and live stock <sup>17</sup>	103	1, 279 17, 037 2, 116	244, 810			244, 810	
stock if. Linens, etc., making and mending. Lumber.	33 4 35	13, 269 1, 441 53, 364	24, 397				
Total	281	100, 334	393, 892			393, 892	

#### Minnesota-State reformatory for men-St. Cloud.

	1		1				
Clothing:							
Garment making, unclassified.	12	\$10,804					
Tailoring	91	28,208					
Crushed rock	91	43,995					
Farm, garden, dairy, and live							
stock	61	31,011	\$2,367			\$2,367	
Linens, etc., making and mend-	0	0 700					
ing	h	8,532	******				
Repair and shop work, miscella-	e	11 490					
neous	8	11,439			********		
Total	222	133,989	2,367			9 267	
1 0tal	224	100, 909	2,301	********	********	2,001	

#### Minnesota—State reformatory for women—Shakopee.

Clathing: Garment making, unclassified. Tailoring.	2	\$525 1,019		 		
Farm, garden, dairy, and live stockLinens, etc., making and mending.	6	4,358 2,182	\$504	 	\$504	
Total	15	8,084	504	 	504	

### Minnesota-State prison-Stillwater.

Clothing: Garment making, unclassified. Tailoring. Farm, garden, dairy, and live stock. Farm implements. Linens, etc., making and mending. Printing. Twine (binder).	4 2 31 92 2 11 487	\$3,643 3,021 40,659 4,304 6,530	\$1,013 291,260 2,271,659		\$1,013 291,260 2,271,659	
Total	629	58,157	2,563,932	 	2,563,932	

17 Includes \$225 worth of ice.

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#### Mississippi-State penitentiary-Jackson.6

	Aver- age number	Value of	Value	of goods of em under v	r produce s vhich prod	old, by uced.	Amount
Industry.	of con-	goods used produced under State-use	Public account.	Piece price.	Contract.	Total.	paid institu- tion for labor of convicts.
Brick Clothing: Garment making, unclassified. Farm, garden, dairy, and live stock Limestone (agricultural) Linens, etc., making and mending.	5 1 1,219 3 24	\$949 138,749 32,779	\$1,090 581,206 1,346			\$1,090 581,206 1,346	*********
Total	1, 252	172,477	583,642			583, 642	

#### Missouri-Reformatory-Boonville.

Brick	50	\$4,567	\$8, 363			\$8,363	
Clothing: Overalls and jumpers	10	4,621					
Farm, garden, dairy, and live stock 18	84	18 92, 689	14,062		A	14,062	
Linens, etc., making and mending. Printing.	5 16	1,928 25,496	**********				
Repair and shop work, miscella- neous	24	14,000	(10,16				
Rock, quarried and crushed	103	296, 389	15, 185			15, 185	********
Shoemaking	10	4, 469 963		4			
Total	303	445, 122	37,610			37,610	********

#### Missouri-State penitentiary-Jefferson City.

BroomsClothing:	89		<b>\$224</b> , 552		 <b>\$224,</b> 552	*********
Garment making, unclassified.	7	\$10, 526	240,1		 	
Jumpers	83		87,487		 87,487	
Overalls	390		426, 741		 426, 741	
Shirts, chambray	259		93, 476		 93, 476	
Shirts, flannel	57		12, 247		 12, 247	
Tailoring (pants)	149		100, 110		 100, 110	
Farm, garden, dairy, and live			-	1		
stock	234	214, 955	1, 101		 1, 101	
Leather findings	10		14,500		 14, 500	
Linens, etc., making and mend-						
ing	13	14,850			 	
Repair and shop work, miscella-						
neous	18	20,870			 	
Shoemaking	149	1,991	179,923		 179,923	
Shoe repairing	25	24, 780			 ********	
Twine and rope	9		17,673	*******	 17,673	
Total	191, 492	287, 972	1, 157, 810		 1, 157, 810	

 <sup>&</sup>lt;sup>6</sup> Headquarters of convict bureau. Convicts are distributed throughout the State on prison farms.
 <sup>18</sup> Four convicts produced State-use ice valued at \$1,687.30.
 <sup>19</sup> Not including 14 convicts making auto suits, not sold.

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Montana-State prison-Deer Lodge.

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to deliver and a	Aver- age number	Value of goods	Value syste	of goods or em under v	r produce s which prod	old, by uced.	Amount
Industry,	of convicts em- ployed under systems named.	used produced under State-use system.	Public account.	Piece price.	Contract.	Total.	paid institu- tion for labor of convicts.
BrickBrooms	5 8	\$18,750 570			********		
Tailoring.  Farm, garden, dairy, and live	7	5,500	********	******			
stock	29 25	17,892 2,969		********			
Rugs	1	2,000	\$91			\$91	
Total	75	45,681	91			91	*******
Clothing:		state per	itentiar	y—Lince	oin.		
Men's cotton work shirts Farm, garden, dairy, and live	300		*********	-			\$89, 225
stock	59 80	\$21,353	\$2,473 88,294			2, 473 88, 294	********
Linens, etc., making and mending. Shoe repairing	11 3	6, 441 3, 500					
					********		
Total.	453						
	100	31, 294	90, 767	482, 439		573, 206	89, 225
Nebraska	—State	reformo		men—L	incoln.	573, 206	89, 225
Nebraska  Clothing: Garment making, unclassified. Farm, garden, dairy, and live	—State	\$1,106	utory for	men—L	incoln.		
Nebraska  Clothing: Garment making, unclassified. Farm, garden, dairy, and live stock. Linens, etc., making and mending. Repair and shop work, miscel-	—State	\$1,106 19,859 3,311	utory for	men—L	incoln.	\$5,861	
Nebraska  Clothing: Garment making, unclassified. Farm, garden, dairy, and live stock Linens, etc., making and mending. Repair and shop work, miscellaneous.	—State	\$1,106 \$1,859 3,311 2,500	utory for	men—L	incoln.	\$5, S61	
Nebraska  Clothing: Garment making, unclassified. Farm, garden, dairy, and live stock. Linens, etc., making and mending. Repair and shop work, miscel-	State	\$1,106 19,859 3,311	utory for	men—L	incoln.	<b>\$</b> 5, 861	
Nebraska  Clothing: Garment making, unclassified. Farm, garden, dairy, and live stock. Linens, etc., making and mending. Repair and shop work, miscellaneous. Shoe repairing.  Total.	-State  15 80 45 5 10 155	\$1,106 19,859 3,311 2,500 1,249 28,025	\$5,861 5,861	men—L	incoln.	<b>\$</b> 5, 861	
Nebraska  Clothing: Garment making, unclassified. Farm, garden, dairy, and live stock. Linens, etc., making and mending. Repair and shop work, miscellaneous.  Shoe repairing.	-State  15 80 45 5 10 155	\$1,106 19,859 3,311 2,500 1,249 28,025	\$5,861 5,861	men—L	incoln.	<b>\$</b> 5, 861	
Nebraska  Clothing: Garment making, unclassified. Farm, garden, dairy, and live stock. Linens, etc., making and mending. Repair and shop work, miscellaneous. Shoe repairing.  Total.	-State  15 80 45 5 10 155	\$1,106 19,859 3,311 2,500 1,249 28,025	\$5,861 5,861	men—L	incoln.	<b>\$</b> 5, 861	
Nebraska  Clothing: Garment making, unclassified. Farm, garden, dairy, and live stock. Linens, etc., making and mending. Repair and shop work, miscellaneous. Shoe repairing.  Total.  Nebraska  Farm, garden, dairy, and live stock.	—State  15 80 45 5 10 155 —State	\$1,106 19,859 3,311 2,500 1,249 28,025	\$5,861 5,861	men—L	incoln.	\$5, 861 5, 861	
Clothing: Garment making, unclassified. Farm, garden, dairy, and live stock. Linens, etc., making and mending. Repair and shop work, miscellaneous. Total  Nebraska  Farm, garden, dairy, and live stock. Linens, etc., making and mending.  Total  Total	15 80 45 5 10 155 —State	\$1,106 19,859 3,311 2,500 1,249 28,025 reforma \$4,498 554 5,052	\$5,861 5,861 story for \$1,136	men—L	-York.	\$5, 861 5, 861 \$1, 136	
Clothing: Garment making, unclassified. Farm, garden, dairy, and live stock. Linens, etc., making and mending. Repair and shop work, miscellaneous. Shoe repairing. Total.  Nebraska  Farm, garden, dairy, and live stock. Linens, etc., making and mending.  Total.  Never stock.  Never stock.	-State  15 80 45 5 10 155  -State  13 6 19  ada-8	\$1,106 19,859 3,311 2,500 1,249 28,025 reforma \$4,498 554 5,052 State pris	\$5,861 5,861 story for \$1,136	women-	-York.	\$5, 861 5, 861 \$1, 136	
Nebraska  Clothing: Garment making, unclassified. Farm, garden, dairy, and live stock. Linens, etc., making and mending. Repair and shop work, miscellaneous. Shoe repairing.  Total.  Nebraska  Farm, garden, dairy, and live stock. Linens, etc., making and mending.  Total.  Nevertices, etc., making and mending.  Total.	—State  15 80 45 5 10 155  —State  13 6 19  ada—S	\$1,106 19,859 3,311 2,500 1,249 28,025 27eformo \$4,498 5,052 State pris	\$5,861 5,861 tory for \$1,136 1,136	women-	-York.	\$5, 861 5, 861 \$1, 136	

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New Hampshire-State prison-Concord.

- Talan 249	Average number of convicts employed under systems named.	Value of goods used produced under State-use system.	Value syste	Amount			
Industry.			Public account.	Piece price.	Contract.	Total.	Amount paid institu- tion for labor of convicts.
Farm, garden, dairy, and live stock	2 98	(20)			<sup>21</sup> \$233,000	<sup>21</sup> \$233,000	\$36,11
Total	100				233,000	233,000	36,1

#### New Jersey-Reformatory for women-Clinton.

Farm, garden, dairy, and live stock	28 24	\$19,075 3,051	\$166	 	<b>\$</b> 166	0 0 0 0 0 0 0 0 0
Total	52	22, 126	166	 	166	

#### New Jersey-Reformatory-Rahway.

Clothing:		****					
Garment making, unclassified	1	\$533	*******				
Tailoring	20	9,462					
Farm, garden, dairy, and live							
stock	44	39,438			22 \$908	22 \$908	\$90
Furniture	6	6,922					400
Linens, etc., making and mending.	6 3 15	1,642				**********	
Printing.	15	22,822	********		*********	*********	*******
Denois and shop work missel	10	22,022			********	********	00000000
Repair and shop work, miscel-		1 700					
laneous	8	1,523			********		*******
Road repairing	(8)	********			22 38	23 38	3
Shoemaking	14	5,379	********				
Total.	111	87,721			22 946	22 946	94
Total	111	01,121	*********	********	940	** 9430	33

#### New Jersey-State prison-Trenton.

Baking, commercial	4	\$14,554					
Garment making, unclassified	2	2, 171					
Tailoring	9	11, 190					
Farm, garden, dairy, and live		00 800		113	all begins	****	
Linens, etc., making and mending	146	26, 539 1, 123	\$390	********		\$390	********
Printing	62	61, 821				********	*********
Repair and shop work, miscel-	02	01,011					
laneous	25	13, 132					
Shoemaking	33	57, 211					
Shoe repairing	18	12, 904 97, 369					*******
rags, automobile	40	91,309	********		********	********	
Total	340	298,014	390			390	

[720]

<sup>&</sup>lt;sup>3</sup> Less than 1.

<sup>20</sup> Unable to get any estimate.

<sup>31</sup> \$15,000 sold from previous year's production, balance estimated.

<sup>32</sup> This amount represents what institution received for hire of convicts and does not represent value of product. Farmers in the neighborhood when in need of help and unable to obtain it otherwise call on institution for some men to do the work.

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New Mexico-State penitentiary-Santa Fe.

	Aver- age number	Value of goods	Value syste	of goods or em under v	produce s which prod	old, by uced.	Amount
Industry.	of convicts em- ployed under systems named.	used produced under State-use system.	Public account.	Piece price.	Contract,	Total.	paid institu- tion for labor of convicts.
Brick and tile	173		\$30, 939 1, 835			\$30, 939 1, 835	
Total	180		\$32,774		*******	\$32,774	
	York—S	State trai	ning scho	ool—Alb	ion.		
Farm, garden, dairy, and live stockLinens, etc., making and mending.	15 24	\$8,146 3,440			********	*******	
Total	39	11,586					
Farm, garden, dairy, and live stock Linens, etc., making and mending. Mattresses (cotton) and uphol- stering.	9 29 4	\$500 4,362 2,758					
stering	42	2,758 7,620	••••••			-	-
Ne	w Yor	k—State	prison-	-Auburn			*
Baskets, willow	21 60 38	\$6,517 18,423 12,732					
stock. Furniture (wood and iren). Linens, etc., making and mending. Repair and shop work, miscella- neous.	16 246 1	20, 927 210, 382 363 13, 769					
Shoe <b>making</b> Tags, <b>automo</b> bil <b>e</b> Textiles.	7 83 172	2,373 198,740 163,745		******			
New Yo	703	formator	y for wo	men-Be	dford.		-
Farm, garden, dairy, and live stock	60 56	\$9,595 7,871	******				
Total	116	17,466					

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TABLE 4 STAT NUMI VICTS

> Brooms Clothin Tai

> Hosiery Linens, Mattres Printin Sheet-II Shoema

Clothin Gar fi Ov Shi

Farm, g Repair laneo Tags, a way

Brick. Farm, Twine

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Brick. Clothi Ga

Farm, Hosier Linen ing. Mattr Printi Quarr Repai lane Shoen Shoen

Soap 1 Tags, Textil

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#### New York-Great Meadow prison-Comstock.

turbles and the burney of the burney of the burney of the burney.		Value of	Value syste	old, by uced.	Amount		
Industry.	of convicts employed under systems named.	used produced under State-use system.	Public account.	Piece price.	Contract.	Total.	paid institu- tion for labor of convicts,
Clothing: Tailoring. Crushed stone	24 25	\$19,048 5,074					*******
stock	36	22,351 423	*******				*******
Mats, coir, and chain Shoemaking		6, 662 1, 667 1, 000					
Total	158	56, 225					

#### New York-Clinton prison-Dannemora.

Clothing: Garment making, unclassified.	8	\$11,280	Note-3 on b-State prison
To loring	8 37	52,174	
Farm, garden, dairy, and live stock	11 7	16,150 10,614	
laneous	27 350	14,977 157,232	
Total	440	262, 427	***************************************

#### New York-State reformatory-Elmira.

Brooms and brushes	5	\$1,033	*********	*******			¥
Clothing:	7	0 000				-	
Garment making, unclassified. Tailoring	17	2,886 6,964	********	*******		********	********
Coffee roasting.	2	29, 040		********	*********		
Farm, garden, dairy, and live	-	20,040			********		
stock.	24	19, 594	\$178	The Title	Martin be	\$178	
Linens, etc., making and mending.		4, 377	4110			4110	********
Printing.	33	7,483		*********			
Repair and shop work, miscel-	00	1, 200			*********	**********	
laneous	73	3, 233	not dell				
Shoemaking	30	5, 204					
Soap making	23	612					
Total	225	80, 426	178			178	

#### New York-Institution for defective delinquents-Napanoch.

Farm, garden, dairy, and live stock.  Linens, etc., making and mending. Shoemaking	36 41 10	\$6,768 15,649 2,829	 	 	
Total	87	25, 246	 *******	 	********

[722]

26

MONTHLY LABOR REVIEW.

Time 4 -VALUE OF GOODS HISED OF SOLD WHAT WERE PROPERTY.

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to all the market probe	Aver- age number	Value of goods		of goods of em under v			Amount
Industry.	of convicts em- ployed under systems named.	used produced under State-use system.	Public account.	Piece price.	Contract.	Total.	paid institu- tion for iabor of convicts.
Brooms and brushes	26	\$21,523					
Tailoring	22	40,029					
Hosiery and underwear	171	263, 444					
Linens, etc., making and mending.	4	6,844					
Mattresses (cotton) and upholstery.	20 22	16, 784 13, 672					
Printing	74	47, 958	1	*********			
Shoemaking	94	108, 884					
			***************************************	************			
Total	433	519, 138		*******			******
North	Carol	ina—Sta	ite priso	n-Rales	igh.		
							1
Clothing:			1007 34				
Garment making, unclassi-	100	04 700	0				
fied	17	\$4,500		1			
Overalls and jumpers	18 12	4,800 2,214					
Farm, garden, dairy, and live stock. Repair and shop work, miscel-	320	100, 864	\$62,399			\$62,399	
laneous. Tags, automobile; signs for high-	- 6	3,000					
way commission	3	5, 280					
Total	376	120, 658	62, 399			62, 399	
North Dakot	a—Sta	te penite	entiary—	-(Grove)	Bismarc	k.	
Brick Farm,garden,dairy,and live stock. Twine and rope	3 36 83	\$23,749	\$3,796 1,343 332,585	1		400	
Total	122	23,749	337,724			337,724	
Ohio—State penitentiary (i	ncludin	ig State Colum		London	and Sta	te brick	plant)—
Brick	169	\$159,684					
fied	39	43,736					
Farm, garden, dairy, and live stock.	291	114, 882				********	
Hosiery and underwearLinens, etc., making and mend-	99	57, 268					*******
ing.	8	9, 268					
Mattresses (cotton) and upholstery.		10,790					
Printing	13	3, 848					
Quarrying stone	18	13, 444		*******			*********
laneous	81	52, 239	1000.1	1			Tallet .
Shoemaking	11	6, 261					
Shoe repairing	2	1, 126					
Soap making	24	80, 870					
Tags, automobile	80	109, 926					
Textiles 15	280	104, 089					
The state of the s			0.10				
Total	1,139	767, 422	********	*******	*******	********	********

<sup>15</sup> Cotton yarn was spun by inmates.

[723]

STATE-NUMBE VICTS,

> farm, ga stock... inens, et rinting. Repair an neous... Shoemak Tags, aut

> > P

Clothing: Garn Tailo Farm, g stock... Linens, e

To

Pen

Hosiery Linens, of Printing Repair & neous. Shoemal Textiles Tobacco

Penns

Brooms
Farm,
stock.
Linens,
Printing
Repair
neous
Textiles

Clothin Mer Farm, stock Printin

1 Est

Ohio-State reformatory-Mansfield.

	age number	goods	Value	of goods o	r produce s which prod	old, by uced.	Amour
Industry.	of convicts em- ployed under systems named.	used produced under State-use system.	Public account.	Piece price.	Contract.	Total.	paid institu tion fo labor o convict
Clothing:			15				
Garment making, unclassified.	103	\$9,518		**********	**********	*******	******
Tailoring	103	202, 799 74, 597	********	********		*********	
Furniture (wood)	227	108, 287					
Linens, etc., making and mending	6	13,015					
Printing	65	28, 593					
Repair and shop work, miscel-	00		100 CA				
laneousShoemaking	38 68	5, 168 58, 491	********			**********	******
	08	50, 491				********	* * * * * * *
Total	612	500, 468					
Oklaho	ma—S	tate peni	1 .	-McAle	1		
Brick	. 80	\$3,763			********		
Brooms	5	1,770					
Clothing:					1		
Garment making, unclassified.	430	330	********	161 202 00	********	11 200 0	******
Men's denim work shirts  Overalls and jumpers	430 10	6,751		***************************************	*********	-1,363,014	\$99,
Pants, work	10 9	6,751 4,846			********	*********	******
Tailoring	15	9,605					
Farm, garden, dairy, and live stock. Farm implements (wagons)		56,956	61,548			61,548	*****
rarm implements (wagons)	12	861		*********	********		******
Linens, etc., making and mending. Mattresses and pillows	20 7	5,079 3,522	********	*********		*********	
Mattresses and pillows	1	0, 022	********	********	********	*******	******
laneous	7	7,389	******	******		*****	
Shoe making	16	13, 197		*********			
Tags, automobile	20	41,671		*********			
Twine and rope	90	2,001	177,527			177,527	
Underwear	10	1,261				4	
	-					*******	
Total	930	159,002			*********		
		159,002	282, 333		*******		
Oklah	oma—	159,002 State ref	282, 333	1, 363, 014	*******		
Oklah Clothing: Garment making, unclassified.	oma—,	159,002	282, 333 formator	1,363,014 y—Gran	ite.	1,645,347	99,
Oklah Clothing: Garment making, unclassified.	21 180	159,002 State ref \$10,440	282, 333 formator;	1,363,014 y—Gran	*******	1,645,347	99,
Oklah  lothing:     Garment making, unclassified. rushed granite	oma—,	159,002 State ref	282, 333 formator	1,363,014 y—Gran	ite.	1,645,347	99,
Oklah	21 180 50	159,002 State ref \$10,440	282, 333 formator;	1,363,014 y—Gran	ite.	1,645,347	99,
Oklah  lothing: Garment making, unclassified. rushed granite. arm, garden, dairy, and live stock. hoemaking.  Total	21 180 50 8 259	\$10,440 \$10,440 \$10,678	282, 333 formator; \$28, 187 17, 508 45, 695	1,363,014 y—Gran	ite.	\$28, 187 17, 508	99,
Oklah  lothing:     Garment making, unclassified. rushed granite arm, garden, dairy, and live stock. hoemaking  Total  Ore	21 180 50 8 259	159,002 State ref. \$10,440 18,021 2,217 30,678 State pen	\$28, 333 cormator; \$28, 187 17, 508 45, 695	1,363,014 y—Gran	ite.	\$28, 187 17, 508 45, 695	99,
Oklah  lothing:     Garment making, unclassified. rushed granite arm, garden, dairy, and live stock. hoemaking  Total  Ore	21 180 50 8 259	\$10,440 \$10,440 \$10,678	282, 333 formator; \$28, 187 17, 508 45, 695	1,363,014 y—Gran	ite.	\$28, 187 17, 508	99,
Oklah  lothing:     Garment making, unclassified. rushed granite. arm, garden, dairy, and live stock. hoemaking.  Total.  Ore	21 180 50 8 259	159,002  State ref \$10,440  18,021 2,217  30,678  State pen \$1,934 2,836	\$28, 333 cormator; \$28, 187 17, 508 45, 695	1,363,014  y—Gran	ite.	\$28, 187 17, 508 45, 695	99,
Oklah  lothing:     Garment making, unclassified. rushed granite	21 180 50 8 259	159,002  State ref. \$10,440  18,021 2,217  30,678  State pen \$1,934 2,836 7,000	\$28, 333 cormator; \$28, 187 17, 508 45, 695	1,363,014  y—Gran	ite.	\$28, 187 17, 508 45, 695	99,
Oklah  lothing:     Garment making, unclassified. rushed granite arm, garden, dairy, and live stock. hoemaking  Total  Ore  rick lothing:     Garment making, unclassified.     Tailoring arm, garden, dairy, and live stock	21 180 50 8 259 259	\$10,440 \$10,440 18,021 2,217 30,678 State pen \$1,934 2,836 7,000 49,652	\$282,333 cormator; \$28,187 17,508 45,695 itentiary \$9,245	1,363,014  y—Gran	ite.	\$28, 187 17, 508 45, 695	99,
Oklah  Oklah  Garment making, unclassified. rushed granite arm, garden, dairy, and live stock. hoemaking.  Total  Ore  rick lothing: Garment making, unclassified. Tailoring. arm, garden, dairy, and live stock lax industry.	21 180 50 8 259 259 15 3 6 35 35	\$10,440 \$10,440 18,021 2,217 30,678 State pen \$1,934 2,836 7,000 49,652 322	\$282, 333  formator; \$28, 187 17, 508 45, 695  itentiary \$9, 245	1,363,014  y—Gran	ite.	\$28, 187 17, 508 45, 695 \$9, 245	99,
Oklah  lothing:     Garment making, unclassified. rushed granite.  arm, garden, dairy, and live stock. hoemaking.  Total.  Ore  rick Garment making, unclassified. Tailoring. arm, garden, dairy, and live stock live in the stoc	21 180 50 8 259 259	\$10,440 \$10,440 18,021 2,217 30,678 State pen \$1,934 2,836 7,000 49,652 322 3,310	\$282,333 cormator; \$28,187 17,508 45,695 itentiary \$9,245	1,363,014  y—Gran	ite.	\$28, 187 17, 508 45, 695	99,
Oklah  lothing:     Garment making, unclassified. rushed granite	21 180 50 8 259 259	\$10,440 \$10,440 18,021 2,217 30,678 State pen \$1,934 2,836 7,000 49,652 322	\$282, 333  formator; \$28, 187 17, 508 45, 695  itentiary \$9, 245	1,363,014  y—Gran	ite.	\$28, 187 17, 508 45, 695 \$9, 245	99,
Oklah  lothing:     Garment making, unclassified. rushed granite	21 180 50 8 259 259 15 3 6 35 35 58 2	\$10,440 \$10,440 18,021 2,217 30,678 State pen \$1,934 2,836 7,000 49,652 322 3,310 2,800	\$282, 333  formator; \$28, 187 17, 508 45, 695  itentiary \$9, 245	1,363,014  y—Gran	ite.	\$28, 187 17, 508 45, 695 \$9, 245	99,
Oklah  lothing:     Garment making, unclassified. rushed granite. arm, garden, dairy, and live stock. hoemaking.  Total.  Ore  rick. lothing:     Garment making, unclassified.	21 180 50 8 259 259	\$10,440 \$10,440 18,021 2,217 30,678 State pen \$1,934 2,836 7,000 49,652 322 3,310	\$282, 333  formator; \$28, 187 17, 508 45, 695  itentiary \$9, 245	1,363,014  y—Gran	ite.	\$28, 187 17, 508 45, 695 \$9, 245	99,
Oklah  Oklah  Garment making, unclassified.  rushed granite	21 180 50 8 259 259 15 3 6 35 35 58 2	\$10,440 \$10,440 18,021 2,217 30,678 State pen \$1,934 2,836 7,000 49,652 3,310 2,800 5,000	\$282, 333  formator; \$28, 187 17, 508 45, 695  itentiary \$9, 245	1,363,014  y—Gran	ite.	\$28, 187 17, 508 45, 695 \$9, 245	99,

<sup>1</sup> Estimate.

[724]

28

Pennsylvania—Industrial reformatory—Huntingdon.

12.2	Aver- age number	Value of	Value syste	of goods or em under v	produce s which prod	old, by uced.	Amount
Industry.	of convicts em- ployed under systems named.	goods used produced under State-use system.	Public account.	Piece price.	Contract.	Total.	paid institu- tion for labor of convicts.
Farm, garden, dairy, and live stock. linens, etc., making and mending rinting.	54 5 8	\$18,000 2,500 6,000					
Repair and shop work, miscella- neous	10 2 90	5, 371 1, 000 306, 396	*******			********	*******
Total	169	339, 267					
Pennsylvania—Munc	y Farn	ı (forme	rly State	Industra	ial Home	e)—Mur	icy.
Clothing:							
Garment making, unclassified. Tailoring. Farm, garden, dairy, and live	11	\$542 36		********		*******	
stock Linens, etc., making and mending.	36 18	9, 263 888	\$524			\$524	
Total	66	10,729	524			524	
liciery and underwear. Linens, etc., making and mending. Printing. Repair and shop work, miscella-	24	\$35,911 15,000 12,172		********		********	
neousShoemaking	66	3,611 102,107					
Textiles	40 6	40, 365 2, 500					********
Total	248	211,666				********	*******
Pennsylvania—State penite	ntiaryf	or the we	stern dis	trict of P	ennsylva	nia—Pit	tsburgh.
Brooms and brushes Farm, garden, dairy, and live	10	\$15,060					*******
stock Linens, etc., making and mending.	151 32	77, 144 58, 397	\$11,507			\$11,507	
rinting.  Repair and shop work, miscella- neous.	3	2,000					
Textiles	115	1,000 55,551	********		*******	********	********
Total	313	209, 152	11,507	******		11,507	
Rhode Island-Sta	te pris	on and I	Providen	ce Count	y jail—	Howard.	
Nothing:		15 115					
Men's work shirts	241			1\$1,396,264		1\$1,396,264	\$96,995
stock	40	\$25,706 2,700					
Total	285	28,406		1, 396, 264		1, 396, 264	96, 995
1 Estimate.				-	-		

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[725]

Table 4.—Value of Goods used or sold that were produced under the state-use, public-account, piece-price, and contract systems, average number of convicts employed, and amount received for Labor of Convicts, By industry—continued.

TABLE STAT NUM VICT

Tex

Farm, stock Linens Repair laneo

Shoem

Clothir Ga Ta Farm, stock

Linens

Laund

Farm, stock Shoem

Clothi GO O Ji W Farm stoc Furni Printi Quari Shoe

#### Rhode Island-Workhouse and house of correction-Howard.

Industry.	Aver- age number	Value of	Value syste	of goods o	r produce so which produ	old, by seed.	Amour	
		of convicts em- ployed under systems named.	goods used produced under State-use system.	Public account.	Piece price.	Contract.	Total.	paid institu tion fo labor o convict
Farm, gard	den, dairy, and live	44	\$29,149	<b>\$</b> 4,652			\$4,652	

#### South Carolina-Penitentiary-Columbia.

Clothing: Garment making, unclassified Overalls and jumpers. Farm, garden, dairy, and live stock. Furniture. Shoe repairing.	20 40 134 249 9	\$5, 218 7, 940 47, 814 3, 600	\$35, 783 214, 370	 	\$35, 783 3 214, 370	
Total	452	64, 572	250, 153	 	<b>250</b> , 153	

#### South Dakota-State penitentiary-Sioux Falls.

Farm, garden, dairy, and live stock	115 18	\$39,643 6,099				
Shoe repairing Twine and rope	95	8,500	157, 901	 	157, 901	********
Total	232	49, 242	167, 267	 	167, 267	

#### Tennessee-State penitentiary-Nashville.

Clothing: Aprons (for house use)	252			1 \$329, 365	 1 \$329, 365	\$52,08
Farm, garden, dairy, and live stock.	58	\$132,725	\$41,875		 41,875	
Harness (complete sets) Hosiery Linens, etc., making and mending.	193 256 19	22, 160		190,660 374,606	 190, 660 374, 606	39,13 63,38
Repair and shop work, miscella-	3	11, 500	-14/477	120	 *********	********
Shoe repairing	20 184	60, 175		564, 178	 564, 178	80,16
Total	985	226, 560	41,875	1, 458, 809	1, 500, 684	243,7

#### Tennessee-Brushy Mountain penitentiary-Petros.

Coal mining	265 23					
Repair and shop work, miscella- neous	86	45, 000			 	********
Total	374	130, 702	232, 700	******	 232,700	

<sup>1</sup> Estimate.

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TABLE 4.—VALUE OF GOODS USED OR SOLD THAT WERE PRODUCED HAD

<sup>23</sup> With selling agent feature.

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mount paid nstituion for ibor of puviets.

52,080

39, 138 33, 383

0, 198 3, 799 TABLE 4.—VALUE OF GOODS USED OR SOLD THAT WERE PRODUCED UNDER THE STATE-USE, PUBLIC-ACCOUNT, PIECE-PRICE, AND CONTRACT SYSTEMS, AVERAGE NUMBER OF CONVICTS EMPLOYED, AND AMOUNT RECEIVED FOR LABOR OF CONVICTS, BY INDUSTRY—Continued.

Texas—State penitentiary (including prison farms throughout the State)— Huntsville.

Comments in the same	Aver- age number	Value of	Value syste	of goods or em under v	produce s which produce	old, by uced.	Amount
Industry.	of convicts em- ployed under systems named,	goods used produced under State-use system.	Public account.	Piece price.	Contract.	Total.	paid institu- tion for labor of convicts.
Farm, garden, dairy, and live stockinens, etc., making and mending. Repair and shop work, miscellaneousshoemaking	2,678 24 37 10	\$260,000 -63,037 19,067 42,657	\$494,054	*******			
Total	2,749	324, 761	494, 054				
Uta	h—Sta	te prison	-Salt I	Lake Cit	y.		
Clothing: Garment making, unclassified. Tailoring. Farm, garden, dairy, and live stock. Linens, etc., making and mending.	(*) 2 29 1	\$212 1,492 7,606 481					
Total	32	9,791	2,056			2,056	
					D 4	1	
Vermont—State prison	17	*******	\$5,679	*******		\$5,679	· · · · · · · · · · · · · · · · · · ·
	17	*******	\$5,679	*******	for men-	\$5,679	97. \$34,349
Vermont—State prison  Farm, garden, dairy, and live	17 n depar	rtment, h	\$5,679 ouse of co	orrection	for men-	\$5,679  -Windso  \$2,571 664,313	
Vermont—State prison  Farm, garden, dairy, and live stock. Shoemaking. Total.	17 n depar	\$8,265	\$5,679  ouse of co \$2,571	prrection \$664,313	for men-	\$5,679  -Windso  \$2,571 664,313	\$34, 349
Vermont—State prison  Farm, garden, dairy, and live stock. Shoemaking.  Total.  Virgin  Clothing: Garment making, unclassified Overalls. Jumpers. Work pants. Work shirts. Farm, garden, dairy, and live	20 176 196 196 8 20 14 133 3	\$8,265	\$5,679  ouse of comparison of the state of t	\$864,313 664,313	for men-	\$5,679  -Windso \$2,571 664,313 666,884  1 \$11,472 1 29,740 1 285,028 1 6,972	\$34, 349
Farm, garden, dairy, and live stock.  Total.  Clothing: Garment making, unclassified Overalls. Jumpers. Work pants. Work shirts.	17 20 176 196  196  8 20 114 133	\$8,265 8,265	\$5,679  ouse of co \$2,571	\$864,313 664,313	for men-	\$5,679  -Windso  \$2,571 664,313 666,884	\$34, 349 34, 349 \$5, 760 4, 032 38, 305

<sup>1</sup> Estimate.

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<sup>&</sup>lt;sup>8</sup> Less than 1.

TABLE STA NU! VIC

> Broom Brick Clothi Grami stoc Grami wor Lines

> > Cloth G T Farm sto Lines

Baki Cloth Farr sto Hosi

Laur Line Prin Qua Rep lar Shoe

Tags Twi

Clot

#### Washington-State penitentiary-Walla Walla.

	Aver- age number	Value of goods	Value	old, by uced.	Amoun		
Industry.	of convicts employed under systems named.	used produced under State-use system.	Public account.	Piece price,	Contract.	Total.	paid institu- tion for labor of convicts
Clothing:							
Garment making, unclassified	11	\$9,315	********				
Tailoring	25	20,806		*******			
Farm, garden, dairy, and live	00	04 700	An mom		Date of	An 202	
stock	28	24, 598	\$3,727	*******		\$3,727	
Linens, etc., making and mending. Repair and shop work, miscella-	10	8, 187		********			
neous.	14	8,729		1			
Shoe making	0.	12,572					
Shoe repairing	3	1, 229					
oap	1	3, 500					
Tags, plates, signs, etc	66	37,957					
Total	183	126, 893	3,727			3,727	

#### Washington-State reformatory-Monroe.

Brick manufacturing	8	\$900	\$1,176			\$1,176	
Clothing:			100		THE REAL PROPERTY.		
Garment making, unclassified.	4	3,265					
Tailor shop	10	9,745			*******		
Farm, garden, dairy, and live stock.	73	32,162	2,599		********	2,599	
Furniture	3	2,734					
Linens, etc., making and mending	3	2,875					
Mattresses, cotton and upholstery.	(3)	170					
Printing.	3	3,250					
Repair and shop work, miscella-		-,					
neous	6	7.795					
Shoe repairing	2	1.812					
- Control of the cont	A STATE OF	1,012		***********			
Total	112	64,708	3,775			* 3,775	
		04,100	1 0,			9,	

#### West Virginia-State penitentiary-Moundsville.

	stock. Linens, etc., making and mending. Printing.	46 20 12	35, 891 14, 567 6, 177	\$20,504	 	20,504	
laneous		11	13,000		 63 200	63 200	17.56
	Total	1,151	85, 635	20, 504	2,578,448	2 508 952	225,8

<sup>1</sup> Estimate.

a Less than 1.

TABLE 4.—VALUE OF GOODS USED OR SOLD THAT WERE PRODUCED UNDER THE STATE-USE, PUBLIC-ACCOUNT, PIECE-PRICE, AND CONTRACT SYSTEMS, AVERAGE NUMBER OF CONVICTS EMPLOYED, AND AMOUNT RECEIVED FOR LABOR OF CONVICTS, BY INDUSTRY—Continued.

Wisconsin-State reformatory-Green Bay.

	Aver- age . number	Value of goods	Value syste	of goods or m under w	produce schich produ	old, by need.	Amount
Industry.	of convicts em- ployed under systems named.	used produced under State-use system.	Public account.	Piece price.	Contract.	Total.	paid institu- tion for labor of convicts.
Brooms		24 \$665	24 \$55 24 169			\$55 169	
Clothing: Garment making, unclassified. Children's play suits	1 135 13	571 10,685		1\$1,149,030		11,149,030	\$61,229
Tailoring Farm, garden, dairy, and live stock Granite cutting (monumental	32	19,509	704	********		704	
work). Linens, etc., making and mending.	23 1	3,388	10,641			10,641	
Total	205	34,818	11,569	11,149,030		1, 160, 599	61, 229
Wisconsin-	Industr	rial Hom	ne for W	omen—1	Taycheed	ah.	
Clothing Garment making and mending. Tailoring. Farm, garden, dairy, and live		\$104 35					
Linens, etc., making and mending.	11 4	2,663 731	\$247 181		********	\$247 181	
Total	16	3,533	428			428	
Wi	sconsin	-State	prison—	Waupur	ı.		
Baking, commercial	(3)	\$900			*******		
Clothing: Garment making, unclassified Tailoring Farm, garden, dairy, and live	2 10	2,446 3,921					
stock	101 320 (3)	56, 720 900	\$21,935		\$681,446	\$21,935 681,446	\$139,682
Linen, etc., making and mending Printing Quarrying and crushing stone Repair and shop work, miscel-	1	1,677 4,885 3,053	33			33	
laneous Shoemaking Tags, licenses, etc Twine	1 16 12 85	10, 050 15, 800 60, 405 676	28, 074 171 474, 246			28, 074 171 474, 246	
Total	554	161, 433	524, 459		681, 446	1, 205, 905	139, 682
Wyor	ning—	State per	nitentiar	y—Rawl	ins.		
Clothing: Men's cotton work shirts Farm, garden, dairy, and live	212		••••	1\$1,696,014		\$1,696,0	14 \$42,053
stock	13	\$7,017					
	-	7,017	-				

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Estimate.
 Less than 1.
 Plant not in operation this year; sales made from stock on hand.

Table 4.—VALUE OF GOODS USED OR SOLD THAT WERE PRODUCED UNDER THE STATE-USE, PUBLIC-ACCOUNT, PIECE-PRICE, AND CONTRACT SYSTEMS, AVERAGE NUMBER OF CONVICTS EMPLOYED, AND AMOUNT RECEIVED FOR LABOR OF CONVICTS, BY INDUSTRY—Concluded.

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#### Wyoming-Industrial institute-Worland.

minut	Aver- age number	Value of	Value	of goods of em under v	r produce so which produ	old, by iced.	Amour
Industry.	of convicts em- ployed under systems named.	goods used produced under State-use system.	Public account.	Piece price.	Contract.	Total.	paid institu tion for labor of convict
Farm, garden, dairy, and live stock	39	\$13,294	\$1,862	******		\$1,862	******

#### United States penitentiary-Atlanta, Ga.

Clothing:				1 1110 17		
Garment making, unclassified.	6	\$7,487		 		
Overalls and jumpers	52	7,632		 		********
Tailoring		49, 091		 ********		
Farm, garden, dairy, and live stock.	180	73, 074		 		
Furniture (wood and iron)	12	6, 935		 		
Linens, etc., making and mending.	3	2,677		 		
Repair and shop work, miscel-						
laneous	125	110,390		 		********
Shoemaking	16	20,012		 		
Shoe repairing	7	6, 335		 	********	*******
Textiles:						
Duck, cotton	1,631	1,710,437		 		
Duck, remnants and waste	16		\$16,693	 	\$16,693	
Underwear	12	12,881		 		*******
Total	2,066	2,006,951	16,693		16,693	

#### United States penitentiary—Leavenworth, Kans.

Brick	45	\$9,372	
Brooms and brushes	6	2,396	*********** ***************************
Clothing:	41	F 700	The state of the s
Overalls and jumpers	50	5,769 29,540	
Work shirts	11 58 8 85 29	3,905	0 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Farm, garden, dairy, and live stock	85	42, 896	
Linens, etc., making and mending.	29	14, 597	
Printing	33	6, 369	
Repair and shop work, miscel-			INTERNATION OF A LONG LEGISLATION OF THE PARTY OF THE PAR
laneous.	194	66,742	
Shoemaking	41	21, 307	***************************************
Shoe repairing	31	15, 994	
Total	541	218, 887	**********

### United States penitentiary-McNeil Island, Wash.

Clothing:	11111	17 1125	P. 60 1 1 60 - 10 - 10 10 10 10 10 10 10 10 10 10 10 10 10
Garment making, unclassified.	2	\$1,677	
Tailoring	2	2,020	
Farm, garden, dairy, and live stock.	33	17, 987	
Furniture	4	997	
Linens, etc., making and mending. Repair and shop work, miscel-	4	4, 175	
laneous.	19	27,383	
Sand and gravel unloaded	(0)	495	
Shoe repairing.	2	2,342	
Wood cutting and unloading	28	24,322	
Total.	94	81,398	

<sup>\*</sup> Less than 1.

TABLE 5.—AVERAGE NUMBER OF STATE AND FEDERAL CONVICTS EMPLOYED UNDER PUBLIC WORKS AND WAYS SYSTEM AND VALUE OF CONSTRUCTIONS, BY STATE.

		mber of con- oloyed on—	Valu	e of-
State.	Building construction.	Road con- struction.	Building construction.	Road con- struction.
Alabama	264		\$1, 112, 872	
ArizonaCalifornia:		34		\$60,000
Folsem	174	185 254	130,000	240, 000 400, 000
Colorado	317 64	62	225, 000 1 165, 000	500,000
Florida	6	757	12,000	2,026,318
Georgia Illinois	677	3, 258	500,000	5,030,350
Indiana	28 100		30,000 66,009	
Kansas Louisiana <sup>2</sup>	63 455		195, 000 * 53, 291	
Maine	12		70,000	
Baltimore	0 2 2 0 2 2 2 2 2 2 5 2 7	6 3	4 . 4	4 3, 179
Jessups Michigan:	420		P.7. 000	1, 561
Ionia	153 325		57,000 8 100,489	
Marquette	19		32, 876 13, 94 <del>0</del>	
Missouri Montana	4	44	2,184	25, 975
New Mexico New York:		13		5,000
Auburn	7 15	31 42	20,000 17,000	44, 845 34, 855
Dannemora	53	4	42,000	2,411
North Carolina Oklahoma	82	550	6 54, 360	1, 455, 176
Pennsylvania Utah.	191		365, 318 7 75, 000	**********
Vermont Virginia Washington:		30 550		8 10,000 1,786,800
Walla Walla	(9) 2	5	1,500 7,000	5,250
West Virginia Wisconsin	7	130	26,000	10 196, 000
Total State institutions	3,034	5,967	3, 373, 830	11,827,71
Kansas:				
United States penitentlary	729	************	65,056	*********
United States penitentiary	33		64, 945	**********
Total, United States institutions	762		130,001	
Total, all institutions	3,796	5,967	3, 503, 831	11, 827, 71

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<sup>&</sup>lt;sup>1</sup>Estimate; also includes railroad construction, \$40,000. <sup>2</sup>Headquarters of the convict department at Baton Rouge. Convicts are distributed throughout the Facadquarters of the convict department at Batch Acostate on prison farms.

Construction of levees and grade work.

Represents what State paid institution and inmates.

Includes some repair work.

Construction work on Bull Creek Dam.

Estimate of work on dam in Parleys Capyon.

Estimate.

Estimate.

Less than 1.

<sup>10</sup> Grading and draining roads.

# Shifting of Occupations among Wage Earners as Determined by Occupational History of Industrial Policyholders.

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By Louis I. Dublin, Ph. D., Statistician, and Robert J. Vane, Jr., Metropolitan Life Insurance Co., New York.

HE effect of occupation on both health and longevity opviously is a subject of great interest to the life insurance companies. They are keen to evaluate such effects, in order to classify fairly applicants for insurance in premium groups according to the extent of their hazard. In the past, no one company has had a sufficiently large number of persons insured in any particular occupation to make it possible to determine the actual life span and risk of any large number of such occupations. It has been necessary for the larger companies to combine their experience, and as a result an instructive investigation on occupational mortality was issued in 1913 as a part of the Medico-Actuarial Investigation. This report was limited entirely to the ordinary policyholders of the companies and largely to so-called standard applicants. This very limitation excluded at one stroke the large number of insured who are exposed to a serious amount of hazard, although a few occupations with decided hazards were included. The value of this investigation was also somewhat marred by the fact that it was based entirely on the occupation at the time of the issuance of the insurance and did not take into account at all the shifting of occupations after the policies were issued.

Since the above investigation was completed, many students of industrial hygiene have looked to the industrial insurance companies as perhaps better equipped than others to compile accurate mortality statistics for various occupations of the industrial type. The thought has been that such companies, with their very large industrial clientele, could keep records of their risks by occupation and at regular intervals evaluate the mortality of homogeneous working-class This, however, has always been considered an impossible task by those intrusted with the mortality records of such companies. In the first place, it has seemed impossible to maintain a separate file of industrial policyholders according to occupation because of the great cost that such a file would involve, and, second, because it has been felt that any such file would hardly meet with the first requirement of the investigation due to the enormous shifting of occupations among industrial workers. The feeling, therefore, has been that too little would be gained from such an investigation to justify the cost of keeping the necessary records. tabulation was undertaken, at the request of Mr. Ethelbert Stewart, United States Commissioner of Labor Statistics, to determine the extent to which our suspicion as to the shifting of occupations in the life of the worker was actually justified by the facts. such a tabulation should throw some light on the occupational history of industrial workers, although, of course, it was realized that

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<sup>&</sup>lt;sup>1</sup> Association of Life Insurance Medical Directors and the Actuarial Society of America. Medico-Actuarial Mortality Investigation, Vol. III, Effect of Occupation on Mortality. New York, 1913.

no complete history could be obtained from the records at hand. It is obviously a matter of interest to know whether men are more likely to shift their occupations if their initial employment exposes them to such hazards as excessive heat, to dusts, to poisonous gases or to arduous labor; likewise, whether the skill required plays any part in determining the continuity of such employment. The purpose of this study, therefore, was a dual one. It was, first, to answer the specific question as to whether changes are a serious item in the employment history of workers, and, second, what relation occupations bear to each other, as determined by the proportion of workers

going from one specified occupation to another.

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This study was limited entirely to two records of the occupation as kept for industrial policyholders of the Metropolitan Life Insurance Co., namely, that at the time of the issuance of the policy and that at the time of the death of the policyholders. The cases were selected at random from among those men upon whom the company paid death claims during the months of August, September, and October, 1923. A total of 4,198 cases was included. shows, for each main industrial heading and for the numerically more important occupations, the per cent remaining at death in the same industry and occupation as at the time of the issuance of the insurance, together with the number in the several occupations into which the original workers had gone. In order that the table might not be unduly extended it was found necessary to limit the showing of the occupations into which the policyholders went after leaving their original occupations. It was decided not to show the distribution by particular occupations for the following broad industrial groups: Agriculture, extraction of minerals, trade, public service, and clerical occupations. It was found upon inspection that no less than 70 per cent of the total cases coming under each of these broad industrial titles were accounted for in one or at most in two kindred occupations; for example, there were 301 cases recorded as engaged in "trade," but of these 139 were merchants or shopkeepers, and 108 were store clerks or salesmen. These similar occupations together accounted for 82 per cent of the total number of cases. It is clear that the total for the combined trade occupations is representative of these two important classes and that very little would be gained by showing the distribution among other occupations of the remaining 54 cases. A similar condition obtains in the other industries mentioned above. The most important individual occupations within each of these industries are shown in footnotes to the table, together with the number of cases and the per cent which such cases are of the total number for the entire industry. group of "professional" occupations contains no one occupation of outstanding importance. It is a miscellaneous group made up of actors and teachers, photographers, nurses, and a number of other occupations requiring varying degrees of training. The manufacturing and mechanical industries were separated into four main divisions, namely, skilled building trades, other skilled trades, unqualified labor, and manufacturing operatives and laborers. It should be noted that for all of these industries the number of deaths upon which were calculated the proportion remaining in the same occupation at death as at issuance of insurance will not be found in the table. These percentages were calculated on and abstracted

from a separate tabulation sheet. In classifying the various occupations under industrial headings the Classified Index to Occupations, published by the United States Bureau of the Census in 1921, was followed. Although the statement of occupation on the industrial applications did not permit of the extensive classification used by the Census Office, it was found that the titles of the code of the company fitted very well into the census code. The chief fault with the industrial code of the company lies in the fact that it does not provide for a separation of laborers from the skilled and semi-skilled workers in the manufacturing industries. It would be highly desirable to have such a distinction made, but the information given on the company's industrial applications makes such a distinction impracticable.

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ecuupa-921, dus-used the ault does emi-ghly iven tion OCCUPATION AT ISSUANCE OF POLICY AND OCCUPATION AT DEATH OF MALE POLICYHOLDERS AGED IS YEARS AND OVER. [Mortality experience of Metropolitan Life Insurance Co., Industrial Department, August, September, and October, 1923.]

Principal Contraction of the Con	Num.				Manu	Manufacturing and mechanical Industries.	g and r.	nechar	nical	T	Transportation.	rtation.	3				Domestic and personal service.	Domestic and ersonal service	nd ice.	-1:	
Occupation at issuance of policy.	at is- suance of policy.	pation at at at as at a sunce of policy.	Agri- cul- ture, etc.	Ex- trac- tion of min- erals.	Skilled build- ing trades.	Other skilled trades.	La- bor- ers (un- qual- filed).	Man- ulac- tur- ing oper- atives and labor- ers.	Total.	Rail- way steam and street) em- ploy- ees.	Long- shore- men, sail- ors, etc.	Chauf- feurs and driv- ers.	To- tal.1	Trade.	Pub- lic s serv- ice.	Pro- fes- sional serv- ice.	Jani- tors and por- ters.	Sa. loon keep- ers.	To tal.	Clerical occur-	All
Agriculture, forestry, and animal	162	41.9	89	-09:0	œ :	9	18	6	4	101	1 5 1 8 5	101	07	10	9	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	041		80	041	25
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Manuacturing and mechanical industries Skilled trades	2,285	63.	2-	85.51	354	326	267	438	1,537	30	21	13	162	92	280	22.00	10	- Miles	15	980	23.0
Carpenters	164	200.00	- 60	1 1 1 0 E 1 1 1 E 1 E 1 E 1 E 1 E 1 E 1	107	200	000	200	122	4	1	64-	-	500	NI-	1		1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- eo -	n on-	
Machinists	180		100		12	200	10	4.0	120	00 -	2	9	16	6	40	-		1		4	
Painters	95	500		E 4 E 4 E 1 E 1 E 5	28	4 -9- 0	0 00 -	2 44 14	69	- 60 0	1	1 1 1 1 1 1 1 1 1	4400	2	9-	1	1 1	1 1 1 0 1 1 1 1	101	1 1	
Printers and pressmen	38	59.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0	2010	26	+ 03 0	3 03 0	0 00 0	V	8 6 8 0 1 X 8 5 8 6	5 6 6 8 5 6 8 8 8 8 8 8	V	27-	E 8 1 5 2 5 6 8 5 6 8 5 6 6 5 6 6 6 6 6 6 6 6 6 6	1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1	1 1 1	101	
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Tailors (factory and shop).	28	74.6	1 1	9		46	*	- 61	200	7-	1	9	0 ==	0	- 1	7	0 11	1 1	0 1	q :	
Laborers (unqualified)	681	25.8	39	13	45	44	178	8	366	45	12	19	81	21	88	at .	21	G1	650	[70	
Cotton silk and woolen	646	61.0	21	60	26	10	43	394	473	13	61	12	30	14	24		13	H	30	13	
mill operatives	141	56.	9	-	10 80	\$100	9	92	109	1		4	9	*	00	£ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £	-6	1 1	00 00	- 73	
Glass workers	25.5			5 1 5 1 6 1 6 1 7 1 7 1	2	2 1.		12:	27	1 - 7	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1	1010		C3 -	F E E E E E E E E E E E E E E E E E E E	1 1	1 1 1 1 1 1 1 1	1	101	-
Iron and steel mill workers.	619	41.		1 ====================================		~ 00	200	150	67.		7	6 E E 6 E 6 E 8	24	2		1		1 1		7	
Woodworkers	25.25	38. 5		1 1	1 0		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	140	25		1 1 1	1	. 6	1	7		7 -		0-	1 1	

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Manufacturing and mechanical industries.	id mechanical	Tran	Transportation.	M In T	1	-	Ders	Domestic and personal service	and rvice.		
Agricure, culting Skilled Other borton, min-ing trades, trades, trades, trades, infed).	Man- ulac- tur- ing s oper- latives and l', labor- ers.	Rail- (steam shore- and men, street) sail- em- ploy- etc.	Chauf- feurs and driv- ers.	To T	Trade.	Pub-fes- lic sional serv-serv- ice.	Jani- tors and por- ters.	Sa- loon keep- ers.	To- tal.	Cler- ical occu- pa- tions.	All
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2 19 34 3	4 4 17 38 53 144	13.02	1 6 13	29	24.0	1-1		2	88	50	14
8 87 430 477 41	410 662 1.979			_	108	1	1		923	6120	500
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<sup>1</sup> Farmers (174 deaths) make up 94 per cent of the total.

Coal miners (underground) (72 deaths) make up 83 per cent of the total.

Merchants and storekeepers (139 deaths) and store clerks and aslesmen (108 deaths) make up 82 per cent of the total.

Watchmen and guards (129 deaths) make up 70 per cent of the total.

Bookkeepers and office assistants (108 deaths) and shipping and stock clerks (32 deaths) make up 75 per cent of the total.

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The combined investigation shows that only 41.5 per cent were found in the same occupation at death as at the issuance of the insurance. A higher proportion, namely 57.3 per cent, remained in the same industry, although not necessarily in the same occupation. The proportions remaining in the same occupation varied, of course, with the several occupations, ranging from the minimum of 23.7 per cent for saloon keepers and bartenders to a maximum of 74.6 per cent for tailors.

Industries and Occupations Showing a High Proportion Remaining in Same Occupation at Death as at Issuance of Insurance.

NEXT to tailors, the highest proportion of constancy in occupation for any group was found among mining occupations, namely, 72.3 per cent. It should be explained that this high proportion for miners is due partly to the classification code, which provides that anyone working in the mines, regardless of his occupation, be classified under the mining title. The figures do, however, indicate clearly a tendency on the part of mine workers to remain in the mines and to advance or retrograde within the mining employments. Railroad track and yard workers also show a tendency to remain in some track or yard occupation. The proportion thus remaining was 63.8 per cent. Apart from these two groups, probably the most important factor determining the proportion of workers remaining in an occupation between the date of issuance of the insurance and the date of death is the degree of skill required by the Thus we find among the highest occupations, tailors, 74.6 per cent; professional workers, 71.4 per cent; barbers and hairdressers, 69 per cent; plumbers and fitters, 63 per cent; carpenters, 59.1 per cent; textile mill operatives, 56.7 per cent; glass workers, 56 per cent; and tobacco workers, 56 per cent. In all probability the skilled and semiskilled operatives in textile mills, tobacco factories, and glass factories would show an even higher proportion if the laborers had not been included with them. It is to be regretted that the occupation code used did not permit the actual differentiation of clear-cut occupations in all these cases. To have done that, however, would have made the entire task impracticable.

Industries and Occupations with a Low Proportion Remaining in Same Industry and Occupation at Death as at Issuance of Insurance.

THE larger number of the listed occupations showed relatively low percentages of constancy. The lowest were represented by saloon keepers and bartenders, 23.7 per cent; hostlers and stablemen, 25.9 per cent; and teamsters, drivers, and chauffeurs, 34.6 per cent. It should be noted, however, that each of these occupations is perforce gradually becoming of less importance. Hostlers, stablemen, teamsters, and drivers are being gradually forced to seek other employments, due to the increasing use of the automobile as a vehicle of transportation. Saloon keepers and bartenders have been practically legislated out of the list of occupations, except that a number still continue to tend bar in soft-drink establishments. The proportion for saloon keepers would have been even smaller, but for the fact that the company has a large number of Canadian

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policyholders who are included in the investigation. As would be expected, unskilled labor showed a very low proportion of constancy, 25.8 per cent. The following occupations, all of which are made up entirely of or contain a large proportion of unskilled workers, showed a low percentage in the same occupation at death as at issuance of insurance. Iron-foundry workers, 34.8 per cent; longshoremen and stevedores, 38.1 per cent; iron and steel mill workers. 41 per cent; watchmen and guards, 42.9 per cent; janitors and building employees, 42.9 per cent. It is noteworthy to find among the occupations with a very low proportion of constancy such occupations as bookkeeper and office assistants, 35 per cent; store clerks and salesmen, 38.1 per cent. The explanation of this probably lies in the fact that the largest number of persons engaged in these pursuits are young people who change, when an opportunity presents itself, to more remunerative employments. The relatively low wages of clerks, as compared with the high wages in other occupations at the present time, is probably an important factor in the low figure for clerks and explains the shifting to the more remunerative employments, such as skilled building trades, other skilled trades. chauffeurs, manufacturing operatives and laborers, and steam and street railroad occupations. The low proportion for farmers, 41.8 per cent, seems to bear out the popular idea that these workers are leaving the farms because of high wages in other industries and the increasing difficulty of making farming on a small scale pay.

## Relation of Occupation at Death to Occupation at Issuance of Insurance.

IT WAS expected that a close relationship might be shown between some occupations at the issuance of insurance and the occupations The results, however, indicated no very close or direct at death. connection. In a general way, it seems that the more skilled workers go later to other skilled trades, and the less skilled shift to laboring. Accordingly, it is found that only 4 per cent of the painters, 7 per cent of the tailors, and 13 per cent of the carpenters who shifted their occupation are classified at death among laborers unqualified, whereas 20 per cent of the iron-foundry workers, 25 per cent of the iron and steel mill workers, and 29 per cent of the janitors were so Conversely, 32 per cent of the painters, 20 per cent of the tailors, and 15 per cent of the carpenters who shifted either went to one of the skilled building trades or to some other skilled trade. the less skilled iron-foundry workers the proportion of those changing occupations who changed to the skilled trades was only 7 per cent, and for janitors 8 per cent. The proportion among iron and steel mill workers is an exception, as 19 per cent of such workers changing their occupations went to the skilled trades. It is probable that this high figure is a matter of chance variation, due to the small number of cases. In considering the relation of occupation at death to occupation at issuance of insurance it must be kept in mind that the deaths in this study all occurred within the brief period of three months. Obviously, the business conditions prevailing at the time of the study affected the results very materially. Thus, during July, August, and September, 1923, there was heavy activity in the building trades and wages were high. This fact accounts in part for the large proportion of some of the skilled workers who changed their occupation to go into the skilled building trades. Among those with such high proportions were machinists, 12 per cent; printers and pressmen, 13 per cent; shoemakers, 15 per cent; and barbers and hairdressers, 15 per cent. A study covering the deaths over a much longer period of time would show a somewhat different condition.

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Undoubtedly, a large proportion of the shifting of occupations in some instances is due to the weakened condition of the men brought about by arduous labor, exposure to dusts, to fumes, to poisons, etc. It is difficult to show this in so limited a study. However, we have an indication of the operation of such factors in a few of the occu-The occupation of painter is one which requires considerable skill and one which should therefore have a high proportion of constancy of occupation, but only 50.5 per cent of such men remained painters. It is possible that the explanation for this comparatively low proportion lies in the fact that these men had been poisoned by lead, which made it necessary for them to accept some other occupation. If we had a sufficient number of deaths, we might be able to establish this fact more definitely by the industries to which the men went, but with our limited number of deaths this could not be Undoubtedly, among the glass workers, the iron-foundry workers, and the iron and steel mill workers there are a number of men who were forced to leave their occupations because of exposure to excessive heat and heavy labor. But again the number of deaths is too small to show any relation between the effect of their employment and the occupations to which these men went. Perhaps we might find such instances among the janitors and porters or among the public service group, which is largely composed of watchmen and guards; possibly also among the steam and street railroad employments, all of which are represented among the occupations to which they went. If we could have included in our study some of the occupations with more pronounced hazards, such as grinders, stone cutters and sandblasters, and operatives in chemical manufacturing, we would, undoubtedly, have found the hazards of employment to be one of the most important factors in the shifting of employment.

We have shown that the shifting of occupation is of serious im-The contention of portance in the employment history of workers. the insurance officials that this factor makes valueless extensive studies of mortality by occupation among these industrial workers is therefore justified. The most important factors in the shifting of occupation are shown to be the degree of skill required by the occupation and the activity and high wages in different fields of employments, and we have indicated that the hazards of employment are also important. A general tendency was noted for skilled workers to shift to other skilled employments and for the unskilled to remain in unskilled occupations or to engage in some form of laboring. We are aware that the results of an analysis covering only 4,200 deaths is only suggestive of what a more comprehensive study might show. It would be desirable, for one thing, to study each occupation by the age at the issuance of insurance as well as for the period of time which had elapsed between the date of issuance of the policy and the date of death. In this way we should get a fairly complete occupational history and arrive at some idea of the shifting about due merely to advancement on the part of the younger men and to the

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backsliding of the older men. Such an analysis would be of value not only to the insurance executive but to the economist and the industrial manager as well. It is hoped that this limited study will suggest a more extensive one to those who have the facilities for studying the occupational history of industrial workers in more detail. It would be very desirable to have the points brought out in this analysis kept in mind and to include also a larger number of specific occupation titles, so that the influence of the hazards of employment on the shifting of occupation might be more clearly determined.

## The German Metal Workers' Federation.1

By FRITZ KUMMER, EDITOR OF METALLARBEITER-ZEITUNG.

IN JUNE, 1891, the craft unions of the German metal industry met in conference at Frankfort on the Main with the object of founding a national organization for the workers of that industry, Up to that time there had existed only a small number of unimportant craft unions, which as a rule limited their activities to their special trade and locality and in some instances were either only loosely connected with each other or were not connected at all. To be sure. the necessity of establishing a closer connection between the various trade groups had been felt long before, but its realization was prevented by legal obstacles and also by divergences of opinion as to the best method of bringing about such a connection. The controversy centered in the question of "craft unionism versus industrial unionism." Should local unions be formed for each individual trade, the locals of each trade linked together into national unions, and the various national trade-unions brought together into a federation, or should all trades and occupations of the metal industry be brought together into one local union and the locals so organized be linked

together into a national union?

This question had been discussed in several conferences, but had never been decided. The Frankfort conference finally settled the controversy by adopting by a large majority a resolution which provided that all trades and occupations of the metal industry should be organized into a single local union—that is, that organization should be effected on an industrial and not on a craft basis. The new national organization was given the name "German Metal Workers' Federation" (Deutscher Metallarbeiter-Verband). It was to be "the organization of all persons employed in the metal industry." The proponents of craft unionism made gloomy prophecies concerning the future of the new federation, and the other side also can hardly be said to have acclaimed with enthusiasm the decision of the conference. At all events, few of the delegates to the conference anticipated that the trade-union child, at whose christening they had assisted, would in a few decades become the giant of the international trade-union family. The German Metal Workers' Federation began its career with a membership of only 23,000, but at the end of 1922 it had more than 1,600,000 full-paying members. Its membership has increased with fair regularity, a decrease having taken place only during the World War. This is shown by the following table:

<sup>1</sup> Translated by Alfred Maylander, of the United States Bureau of Labor Statistics.

DEVELOPMENT OF GERMAN METAL WORKERS' FEDERATION, 1891 TO 1922.

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Year.	Number of local unions.	Member- ship.
1891	231	22, 205
1900	446	100, 762
1910	445	464, 016
1915	436	234, 307
1920	717	1,608,932
1922	746	1, 624, 554

This stupendous growth of the federation is, of course, largely due to the powerful expansion of the German metal industry. transformation of Germany from an agricultural into an industrial country had begun even before the conference. The full magnitude of this economic revolution can be appreciated only if one considers that while, in 1882, 42.5 per cent of the German population were dependent on agriculture for their living, by 1907 this percentage had fallen to 28.6. During this 25-year period millions of men left the rural districts and flocked to the towns to find employment in industry. A very large, if not the largest, part of these migrants were absorbed by the metal industry. The need in this industry for cheap and willing labor was great and steadily growing. In the smelting process, as well as in the construction of machinery, numerous important inventions had been made which had to be tested, improved, and utilized. The German export trade needed more steamships and had to satisfy the growing demand of the world markets for German machinery and metal goods. Iron and steel became more and more the backbone of the entire economic life. Elevators and ore bridges, blast furnaces and converters sprang up over night in the ore and coal mining districts, and in their neighborhood large plants were built for the working up of the raw materials thus produced. Soon thereafter metal works and machinery factories were erected side by side throughout the entire country.

The peasants' sons, unskilled in any craft, generally found employment where physical strength counts for more than vocational training—that is, in the iron and steel industry. This change from farm to workshop increased their income and improved their standard of living, and this improvement, while small, was enough to make them forget their homesickness and to preclude any strong urge to join a trade-union for obtaining better working conditions. This circumstance explains in part the fact that before the war only a few thousand of the workers in the iron and steel industry were members of the Metal Workers' Federation. A great change came, however, with the end of the war and the revolution, when the workers in the great iron and steel mills began to join the federation in large numbers.

From the first day of its existence the Metal Workers' Federation kept its doors wide open, because its aim, as already mentioned, has always been to become "the organization of all persons employed in the metal industry." In accordance with this aim, any man or woman, artisan, day laborer, or apprentice, who in any manner produced or worked up any kind of metal was welcomed by the

federation as a member. However, in a number of trades the call to join the common organization of the metal workers fell on deaf The local unions of the molders, coppersmiths, engravers, blacksmiths, goldsmiths, and other trades held aloof from the Metal Workers' Federation, partly because they had no confidence in the future of the federation, and partly because they believed that their craft unions were better able to safeguard their interests. Stern reality, however, brought about a gradual change of opinion. Nearly every day taught them an expensive lesson which showed them the advisability of joining the young but steadily growing sister organization. One trade after the other joined the federation. Thus it has come about that for several years past all the trades in the metal industry, with the exception of the coppersmiths (about 7,000), have been organized in the Metal Workers' Federation, and even the coppersmiths' union is expected to amalgamate with the federation in the near future, since several thousand of its members have already joined. Among the 32 different trades organized in the federation, the machinists with over 363,000 members, form the most numerous occupational group, the turners with 124,000 members come next, and the blacksmiths with 66,000, the mechanicians with 63,000, and the molders with 52,000, follow in the order named. (In these figures the unskilled workers and helpers employed in those callings are also included.) Skilled male workers form 43.6 per cent of the total membership of the federation, unskilled male workers 33.57 per cent, female workers 12.11 per cent, and juvenile workers 10.72 per cent. Thus the Metal Workers' Federation has actually become the organization of all persons employed in the German metal industry.

Organization and Administration.

IN THE German Metal Workers' Federation the supreme power is vested in the assembly of delegates, which convenes every other year. The delegates are chosen by the members, every 4,000 members being entitled to one delegate. The assembly determines the policies of the organization and elects its officers, the executive committee, and the editors of the official organs. Of the 22 officers who form the directorate (Vorstand), 11 must be engaged in active shop work, while the other 11 receive fixed salaries from the federation. The territorial field of activity of the federation is divided into 17 districts. At the head of each of these is a district agent (Bezirksleiter) with a staff of secretaries and clerks. The district agents are appointed and paid by the executive committee of the federation. A district committee elected by the district convention is in charge in each district of matters relating to organization. cases of emergency (strikes, lockouts, etc.) the executive committee convenes the grand advisory council (Erweiterter Beirat), which is composed of the officers of the federation, the editors, the district agents, and three representatives of each of the 17 districts.

The officers of the local unions are elected each year by the membership of these unions. The salaried officials of the local unions may also be officers of the union. The local unions may retain 25 per cent of their revenues (initiation fees and membership dues). The remaining 75 per cent must be regularly transmitted to the treasury of the federation, which uses this money to defray the costs

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of administration of its headquarters and of the district agencies and also to pay all benefits to members. Subject to the approval of the executive committee of the federation the local unions may for a limited period levy special assessments. The greatest possible uniformity and centralization is the ruling principle in the organization of the federation. In accordance with this principle all members of the federation must become members of the local union of their place of residence; all members, men, women, and apprentices, participate with equal rights in the elections, meetings, educational courses, etc., of their local union. Transfer from one local union to another is a very simple procedure, and is gratuitous. There are no special sections for the various trades. If occasionally one trade has to regulate a special matter, for instance, discuss a new wage schedule, demand special sanitary measures, or make an inquiry into the working conditions of the trade, then the members of the trade hold a special meeting, but such meetings are held very seldom. The same applies to national trade conferences, of which four have been held in recent years. They are always called and financed by the central executive committee of the federation.

At the end of 1922 six classes of membership dues were in force, to wit, for men over 21 years of age, men 18 to 21 years of age, women over 19 years of age, girls 16 to 18 years of age, apprentices, and invalids, the latter paying a very low rate merely to keep up their membership. The benefits vary in accordance with the amount of the dues. The relatively small number of contributory classes had, however, to be given up, owing to the rapid depreciation of German currency. Since, during the last months of 1923, wages had to be adjusted each week or every few days to the depreciation of the mark and the increased cost of living, and the money wages differed greatly from town to town, the old contributory classes could not be maintained. In recent months the rate of dues has been governed by the hourly wage rate, one week's dues being set at one hour's wage. If the wage rate changes, the rate of the weekly dues changes accordingly. Needless to say, this innovation greatly increases the work of the treasurer. In some localities or districts with fairly uniform industry the unions can get along with half a dozen contributory classes but in others two or three dozen classes have to be created. It is, however, generally hoped and desired that this costly and troublesome state of affairs will soon come to an end, and that with the stabilization of the German currency the former simple system of dues will again replace the present complex system. The dues are as a rule collected each week, either in the shop through a specially commissioned member or, where the members live in close proximity, through a salaried collector who goes from house to house. On payment of his weekly dues each member is handed the official journals and other literature of the federation.

Even when the German mark was still at par the balance sheet of this gigantic trade-union looked like the budget of a small State. The gradual inflation of the currency has, however, destroyed the value of the long rows of figures for purposes of comparison, and it would therefore be of little use to quote here any of these figures. Suffice it to say that in 1922 alone the receipts of the central treasury from dues and initiation fees amounted to over 1,733,000,000 marks

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and that 353,000,000 marks were disbursed by it for the eight different kinds of benefits (strike, sickness, unemployment, travel, change of residence, death, distress, discharge for union activity). The receipts from the two sources named, as well as the disbursements for benefits, are, however, actually much greater, because the local unions, as has already been mentioned, retain 25 per cent of the receipts and grant considerable subsidies to the benefits paid by the

central treasury.

During 1922 the Metal Workers' Federation recorded no less than 11,091 wage "actions" (Lohnbewegungen), of which 11,016 had the object of securing wage increases and 75 were directed against proposed wage reductions. More than 15,000,000 workers participated in the former and 104,000 in the latter. However, only 388 of these actions led to strikes (involving 204,000 workers); all the others were settled through negotiation. It may be said that practically all (99.3 per cent) of the actions resulted in full or at least partial success for the workers. The financing of these actions involved an expenditure of 309,942,000 marks by the federation. The uncommonly large number of wage actions speaks eloquently of the abnormal conditions in Germany. Owing to the steady depreciation of the mark and the consequent enhancement of prices, wage increases had to be demanded continuously by the workers, which explains the uncommonly large number of wage actions. With the stabilization of German currency their number will probably decrease considerably.

The extensive and varied duties of an organization of this kind and magnitude obviously can not be attended to solely by members who during the day are engaged in active work in the shops. In addition to the numerous unsalaried officers there were therefore (in 1922) 1,521 salaried officers and employees engaged in discharging the administrative duties of the federation. Among the latter were 11 officers of the federation, 2 editors, 17 district agents, 527 business managers of local unions, 318 stenographer-typists, and 271 collectors. The bureaus, printing establishments, libraries, and meeting halls of the unions are in many instances housed in buildings owned

by the federation.

#### Educational Activities.

I P TO the revolution of 1918, the chief task of the free (socialdemocratic) trade-unions in Germany was to improve wages and working conditions and to educate the members for the attainment of this aim. Accordingly the program of the educational institutions of the trade-unions remained restricted to this somewhat narrow Whenever an attempt was made to extend the activities of the unions in this respect it led to conflicts with the monarchical Times innumerable, trade-unions or their members have been prosecuted and condemned for having extended their activities beyond their narrow legal sphere or because they have been thought to have Actions and speeches of a political aspect were heavily punished by the courts. The monarchical State saw in the tradeunions nothing but organizations for the incitement of strikes and disturbers of the public peace and economic life, which merited persecution and suppression rather than to be called on for collaboration in the government and economic development of the country. rent

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The great mass of the employers shared the views of the State concerning trade-unions. Even public opinion saw in the trade-unions only faultfinders and enemies of the Government and of the employers, who through their demands for better wages enhanced the prices of all commodities and thus injured the public. That the trade-unions might possess great possibilities for the preservation of the State and that they could and should become supporters of the State and of economic life were conceptions in monarchical times only rarely encountered outside of organized labor circles.

A change in these views did not come about until November, 1918, when a republican form of government had to be created to replace the monarchical form. In that hour of confusion, of lack of public authority and legal conceptions, the trade-unions showed much greater understanding of the needs of the State and of economic life than had generally been expected of them. The public began to comprehend that trade-unions were by no means superfluous and injurious institutions, but indispensable corporations that should be incorporated into the organism of the State and of economic life in order to become useful to the whole commonwealth. This comprehension led to the calling in of the trade-unions as collaborators in public institutions and corporations, i. e., to an extension of the activities of the trade-unions. In the years subsequent to the revolution the German trade-unions have thus become a strong force in promoting public peace and maintaining the republican régime.

In order to perform efficiently their many new tasks it becomes necessary for the trade-unions not only to increase the number of their leaders and to secure intellectually stronger men to lead them, but also to educate more thoroughly the great masses of the members. The majority of the trade-union leaders had been active as propagandists, strike leaders, office workers, or collectors of dues, but now they were required to act as the workers' representatives in negotiations for collective wage agreements, as economists, or even as pioneers of democracy. This required higher intellectual training. Also, the number of leaders had to be increased considerably. Immediately after the termination of the war, hundreds of thousands, even millions, of men flocked to the trade-unions. Most of them had never belonged to an organization and therefore knew little or nothing of the principles, traditions, and tasks of the trade-union move-The close relation between rights and duties, between factory work and the national economic system was unknown to them. Thus, thorough and general educational training of the rank and file of the trade-unions became an urgent necessity, if the newcomers were not to be disappointed and a falling off in the membership was to be prevented. But for this task a sufficient number of capable persons was not available. Hundreds of trade-union officers, and as a rule the most efficient, had become, because of the revolution, ministers of State, police commissioners, chief county officials (Landräte), mayors, or other public officials, and other public institutions such as the wage boards and conciliation and arbitration boards required the services of a great number of trained trade-unionists. was, therefore, a great shortage of trade-union leaders at the very time when a greater number of them was urgently needed. state of affairs was dangerous to the trade-union movement itself and to its influence upon public affairs. To avert this danger strenuous efforts were made for a considerable increase in the number of trade-union officers, teachers, economists, editors, organizers, and other officials, and the institutions for the schooling of the great mass of union members were at the same time enlarged and im-

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The Metal Workers' Federation has ever since its creation adhered to the principle that a labor organization, in addition to providing bodily nourishment for its members, must also provide food for their minds. Living up to this principle, it has every year in an increasing measure expended strenuous efforts and money on the education of its members. However, its expenditures did not suffice for the educational requirements arising under the republican régime. federation had gained several hundred thousand members in the iron and steel industry who had to be imbued with the spirit of tradeunionism. Moreover, since the Metal Workers' Federation is the largest German labor organization the organized workers of other industries look up to it as a model, and thus there falls to it the difficult task of leading the other unions in all efforts to achieve industrial democracy, the highest aim of the German trade-union movement. All these circumstances made it imperative that the educational activities of the federation be extended and intensified. They had to be adjusted to the double aim of training leaders and of imbuing the great mass of the membership with a true trade-union spirit. With this aim in view the federation included among its educational activities the distribution of literature, the establishment of lecture courses and of a department of economics, and the sending of members to universities, academies, and similar higher educational institutions. The sum expended in 1922 for all these activities amounted to 216,941,000 marks, or 133.88 marks per capita of the membership.

Let us consider in the first place the attendance of universities, academies, etc., by members of the federation. It stands the tradeunions in good stead that the Government of republican Germany, as well as the communes, now appreciates the high value of the tradeunion movement and has opened the public schools to trade-union members. As a rule these schools are supported by public funds and the students pay merely a low tuition fee. The trade-union members attending the schools receive from their union during the period of attendance, which varies between six weeks and one year, a sum sufficient for their sustenance and in addition compensation for their loss of wages, so that their families are provided for while they are attending school. The students are chosen by the executive committee of the federation from lists proposed by the local unions, after previous thorough examination of the mental and personal fitness of the prospective students. During 1922 the federation disbursed 1,878,000 marks for this purpose, exclusive of the allow-

ances granted to students by the local unions.

A comparatively small number of members, only the most capable who seem fitted to become leaders or to hold high office, are chosen for attendance at universities. It is obvious that a university course is too slow a process of education for the requirements of the tradeunions. They need a process that will rapidly produce a corps of

officers and works council members intellectually equipped for their special tasks. This urgent need is best served by extension courses, which have been established and are superintended by the educational director of the Metal Workers' Federation. He is assisted by 35 professional teachers. According to the last annual report, 17 such courses were given, with an average attendance of 57 union members The majority (65 per cent) of the students in these extension courses were works council members, 5 were women and the remainder were trade-union officers. The ultimate choice of the students to be enrolled in these courses is also made by the central executive committee of the federation; the central treasury of the federation maintains these students, furnishes them the required books, and compensates them for the loss in wages. The short duration (17 days) of these courses makes it necessary that instruction be limited to questions closely connected with the duties of works council members and trade-union officers, such as the development of capitalism, commercial and industrial management, labor legislation, industrial hygiene, and history of trade-unionism.

The economic department of the federation, under the direction of a trained expert, furnishes to trade-union officers, wage negotiators, and works council members, especially those delegated to serve on the board of directors of their establishments, through the medium of the periodical, Volkswirtschaftliche Blätter, reliable information on the condition of industry and of the individual establishment, imports and exports, business contracts concluded, and orders received by the individual corrections.

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The economic department is divided into several sections, which systematically follow up the entire economic life, developments in the metal industry and the news in the political, economic, financial, and trade-union press, collect and compile all serviceable information, and above all study systematically the development of the trusts and concerns in the metal industry, their foreign and domestic business affairs, and their balance sheets. The results of these compilations and studies are currently communicated to the local unions and works councils, for use in wage negotiations and on other occasions. When the development of a matter—the development of the trusts, let us say—has reached a certain stage, the result is made accessible to the membership of the federation and under certain circumstances also to the public, through a special publication,

A special department, housed in the federation headquarters, has charge of the education of the juvenile members of the federation. The men in charge of this work in the individual local unions meet in conference at the headquarters from time to time to exchange experiences, etc. Instruction courses are held for apprentices and juvenile workers. In addition, every juvenile member receives weekly the Young People's Journal (Jugendzeitung) of the federation the contents of which are adapted to the intellectual and vocational needs of young workers. The Women's Journal (Frauen-Zeitung), which forms the intellectual bond of woman members, is also fur-

nished gratuitously by the federation.

The oldest and perhaps the most efficacious means of education is the Metal Workers' Journal (Metallarbeiter-Zeitung), which has been the official organ of the federation since the latter's creation. It is issued weekly and given gratuitously to every member. Owing to its large edition (1,748,000 copies), this journal is printed in three different cities (Berlin, Stuttgart, and Duisburg), but the editor's office is at the headquarters at Stuttgart. Two of these printing offices, which do printing for outside parties as well as for the federa-

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tion, are owned by the federation.

Mention has been made of the education of the works council members, those very important factors in bringing about the democratization of industry. In addition to their duties, the works councils were given in 1922 the legal right of delegating a member to serve on the board of directors of their establishment, if the latter is operated by a stock company. This new right can, however, be of advantage to the workers only if the council members delegated to serve on boards of directors are men with a high sense of duty, of great intellect, and well versed in business matters. Such delegates must be well informed as to the economic situation of the industry in general and as to the manner in which their own company does business in particular, and in addition have a fair knowledge of commercial law. The federation is attempting to do justice to these requirements through special courses of instruction for workmen delegates to boards of directors, and the publication of a special periodical (Zeitschrift für Betriebsräte) devoted to the practical and This journal is theoretical education of the works council members. published fortnightly and is furnished to the 30,000 works councils of the metal industry either gratuitously or for a small subscription fee. Each issue contains articles on technical management, production, legal problems, court decisions, and the practical experiences This journal has become the intellectual bond of of works councils. the works councils in the metal industry and their most valuable source of information.

All this, however, describes only in part the educational activities of the federation. Nearly every one of the local unions has its own library from which members may borrow, free of charge, technical, economic, sociopolitical books and works of fiction. In small localities the library of the metal workers' union has generally been combined with that of the other trade-union groups. This combining of the books and funds makes possible for even small local unions the employment of a salaried librarian. The educational activities of the local unions can not very well be described separately, since they are closely connected with those of the local trade-union councils. This is particularly so in the case of all sorts of courses of instruction, theatrical performances, visits to factories and museums, etc.

#### Policies of the Federation.

#### Industrial Organization.

OF THE 7,895,065 members of the German Federation of Labor (Allgemeiner Deutscher Gewerkschaftsbund), 20.5 per cent belong to the Metal Workers' Federation. It is obvious that an affiliated organization whose membership forms such a large percentage of the central organization exercises considerable influence upon the policies of organized labor. At times its influence is even greater than its

numerical strength would indicate, owing to the fact that a large number of its members are members of the Reichstag and State diets, editors of political journals, officers in cooperative societies, delegates to political congresses, etc.

A very important principle of the program of the Metal Workers' Federation aims at the strengthening of the trade-union movement through uniform organization and a unified spirit. That, of course, is the aim of all German unions, but they have differing methods of achieving it. The Metal Workers' Federation, and with it several other organizations, proposes to attain that aim by creating large

industrial federations.

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Organized labor in Germany suffers from a splitting up into many groups, which has been brought about by half a century's evolution. The membership of the German Federation of Labor is distributed among 49 national unions, but 15 national unions with over 100,000 members each comprise 86.6 per cent of the total membership, while the remaining 13.4 per cent consists of 34 smaller national unions, each of which is fully autonomous and possesses an extensive administrative organization, executive committee, official organs, etc., and holds its own congresses. There are enterprises, such as shipvards, automobile factories, steel works, etc., in which 15 different unions compete for members, or in which, in case of wage negotiations, the representatives of 15 or more labor organizations demand to be recognized, while the employers are represented by only one organization. Propaganda and wage negotiations by such a multiplicity of trade-union organizations give rise to continuous discord and financial waste, which the Metal Workers' Federation, an industrial union in the fullest sense, would like to see avoided. It proposes that this shall be done through amalgamation of the small national unions, or, in other words, through transformation of the 49 national unions into a much smaller number, say about 15 industrial unions.

The problem of this transformation was thoroughly discussed by the congress of the German Federation of Labor held at Leipzig in 1922. The metal workers, who form the vanguard of the advocates of industrial unionism, proposed adoption of the following resolutions:

Centralized industrial unions shall be recognized or created for large allied industries, such as the mining, smelting, and metal industries; building trades; textile industries; printing; leather industry; transport and communication; woodworking; public establishments; foodstuff industries; and agriculture and forestry, inclusive of viticulture and gardening. This shall be effected through the amalgamation of existing trade organizations. The congress charges the executive committee of the federation to work out, in the shortest possible time, a plan providing for an organic structure of industrial unions and for the demarcation of their jurisdiction. This plan shall be submitted to the unions most closely concerned for further deliberation.

This resolution was adopted by a vote of 465 to 163. The adoption of the resolution has, of course, not led to an immediate realization of the desired reorganization of the German trade-unions on an industrial basis, for tradition, custom, and the peculiar nature of certain trades form obstacles that can not be overcome by a simple resolution. Nevertheless, the Metal Workers' Federation believes that it has won a great moral victory, since the resolution signifies the acknowledgment of its basic principle by the highest authority of the German trade-union system, an acknowledgment that is apt greatly to promote the ultimate realization of industrial unionism.

As a matter of fact, the idea of amalgamation has again become very active since the above decision of the trade-union congress, and several craft unions have already amalgamated with their larger sister organizations.

#### Industrial Democracy.

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Another and still more important plank in the platform of the Metal Workers' Federation is that of "industrial democracy." The road to it has been opened in republican Germany through the constitution and by law. As is generally known, the workers in every German factory have during the last four years had the legal right of determining, through a works council, conjointly with the employer, their working conditions. The new rights obtained under this law will lead to actual industrial democracy only if the custodians of these rights, the works councils, demonstrate their ability to make proper use of them. Fully aware of this fact, the trade-unions have turned their full attention and efforts to the intellectual and moral strengthening of the works councils. The Metal Workers' Federation has shown the greatest zeal in this respect, for it knows that the most difficult part in the realization of industrial equality falls on its shoulders, since the metal industry forms the iron backbone of German industrial life. Still, industrial democracy, although in itself of great importance to the working class, is for the Metal Workers' Federation only a means of achieving its supreme aim, the socialization of industry. This aim comes to the fore in all its deliberations and in many of its resolutions. Thus it says in the resolution in which the last congress (1921) of the federation determined its policies:

The solution of the world crisis can be effected only through socialization \* \*. The Metal Workers' Federation is called to cooperate in a leading manner in the achievement of socialization. In order to render this cooperation efficient the congress \* \* \* declares indispensable:
The organization of all manual and intellectual workers,

of its basic proteiple by the highest authority of

The exploitation of all possibilities for promoting the interests of the metal

A well-built system of works and economic councils which does not erect barriers to the development of the influence of the workers upon the process of

The training of the workers for the accomplishment of their tasks under a

régime of socialization.

This political pronouncement expresses the opinion of all lines of thought and of all crafts represented in this gigantic trade-union. Its members may at times have differing views on this or that question, but in striving for socialization, their supreme aim, they are always in accord. It is true that in none of the resolutions of the federation has anything definite been said about the practical form of this high aim. Such a statement seems to be considered premature or superfluous at the present time. Instead of dwelling upon the ultimate but still far-removed aim, hand and mind are working in achieving the prerequisites for the attainment of this aim, which will require great effort and much time.

To primate the planete realization of industrial unionsm. [750]

## Land Law of Esthonia.1

By ANDREW PRANSPILL.

Esthonia was owned by German landlords, the native Esthonians living either on the baronial estates as laborers or on small tenant farms, the rent for which they paid to the manor with labor, field products, hides, flax, wool, cloth, and the like. The Germans had gained their foothold in Esthonia in the beginning of the thirteenth century through the invasion of the Teutonic Knights, who conquered and Christianized the country. Cities were founded, fortresses were erected, and the land was colonized by the Germans, who enslaved the native population. Later Esthonia was conquered by the Polish and Swedish kings, and during the reign of Peter the Great (1672–1725) it became a Province of Russia.

When the Russian czars freed the Esthonian serfs a contractual relation was introduced between the landlord and his former serf. This made the condition of the peasant in many respects worse than it had been, as the landlord could oust the peasant at his pleasure, which he had not done before because it was to his interest to take care of his serfs. When it became profitable to grow potatoes and flax on a large scale the landlords increased their acreage at the expense of the small tenancies. Whole villages were torn down and their area converted into large fields attached to the baronial estates. Where the fields extended too far from the dwellings of the laborers, new estates parallel to the principal ones, known under the name of "karjamois," were founded, which usually stretched for several miles.

The small tenant farmers, thus driven out of their homes, were forced to start again on poorer land, in woods, near marshes, and on low lands. This destruction of the small tenancies created the first acute land famine in Esthonia and with it the first large body

of landless peasantry.

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In 1849 the Russian Government approved the peasant law (talurahwa seadus), which, among other things, fixed the boundaries of the large estates and the small tenancies, seeking to end the destruction of the small farms. It also limited the obligations imposed upon the tenants by their landlords. The laborers of the large estates were to be given a small patch of land to cultivate for their own use. Not until 1868 did money rent take the place of the former feudal obligations, but the money rent and free contract produced other evils. As soon as the tenant improved his land and increased its productivity, the landlord demanded a higher rent.

After the peasants were freed, very few of their holdings were sold to them outright. Between the years 1823 and 1849 only 35 farms were sold to the peasants. After the middle of the century, however, they were able to buy farms in greater numbers, as at that time the barons began to construct modern and costly dwellings and lead

<sup>&</sup>lt;sup>1</sup>The data on which this article is based are from Eesti ajalugu by M. Kampmann (pp. 144-147, 174-181); The Esthonian Economic Bulletin; Die Agrarreform in Eesti, by G. E. Luiga; Esthonia, A Second Belgium, by Prof. A. Piip, reprinted from the Contemporary Review, September, 1918; Wabadussoda, kui Eestirahwa aate teostaja Kodaniku Wäike käsiraamat, 1922, by I. Soots (pp. 11-22); The Baltic Review, January, 1921 (pp. 235-238); Eesti statistika kuukiri; Bulletins of the Ministry of Foreign Affairs of Esthonia.

more luxurious lives, for which they needed ready money, and this could best be realized from the sale of the small tenant farms. Those peasants who bought their farms early, at favorable terms, soon paid up their debts and became independent economically. In northern Esthonia sales were slow on account of the poverty of the population and because of false rumors that the Czar would give land free of charge. Up to 1904 only 42 per cent of the small tenant farms in the Reval (Tallinn) district had been sold, while in the south 85 per cent had been sold.

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## Rise of Esthonia as an Independent State.

WHILE the sovereigns of Esthonia changed from time to time, the condition of the Esthonians and their relation to their German landlords remained the same, that of serfs of the feudal lord. Feudalism reigned until the first half of the nineteenth century, and it remained for the land law of 1919 to wipe out the last remnants of feudalism in Esthonia.

When the czarist Government of Russia fell and the provisional government under Kerensky came into power, Esthonia was promised autonomy as one of the States of the new Russian Federation and was allowed to elect a national council or diet (maapaew). Before the representatives of Esthonia could work out a plan for self-government, however, the Bolsheviki overthrew the government of Kerensky and with the aim of putting their dictatorship of the proletariat into effect began to interfere with the work of the Esthonian National Council. As a result of this interference the National Council on November 15, 1917, declared itself to be the sovereign authority in Esthonia, and on February 24, 1918, declared Esthonia to be an independent democratic republic.

In the spring of the same year German troops occupied Esthonia with the consent of the Bolsheviki, intending to make Esthonia a Province of Germany. Companies were formed for the colonization of Esthonia, one-third of the shares being held by the German Empire and two-thirds by the Germans and their organizations in Esthonia, although of the total population of Esthonia, 1,100,000, over 90 per cent were Esthonians and only some 5 per cent were Germans.

The German troops remained in Esthonia for eight months and the population suffered much during their occupation of the country. Due to the victories of the Allies on the western front, the Germans were forced to leave Esthonia in November, 1918. But no sooner had the Germans gone than Bolshevik forces invaded Esthonia, it being their aim to force the Esthonians to join their socialist-Soviet Federation and accept the dictatorship of the proletariat.

With the help of the Allies and neighboring friendly States, within two months the invaders were driven beyond the border of Esthonia. The war continued, however, until February 2, 1920, when the Dorpat peace treaty was signed, in which the Russian Government recognized Esthonian sovereignty over the people and land of Esthonia and promised to pay to Esthonia 15,000,000 gold rubles, besides giving Esthonia certain concessions for forests.

## Reasons for Passage of Land Law.

WHILE Esthonia was fighting with the Bolshevik in the summer of 1919 a German army was formed in Courland, which overthrew the democratic government of Latvia and set up a new one composed of Germans and the pro-German element in Latvia. This army, known in Esthonia as the Landwehr, was organized principally at the instigation of the German barons in the Baltic Provinces, who, fearing the loss of their power with the rise of the new independent Baltic States, sought to annex these Provinces to the German Empire. The army was formed partly of German troops and partly of the pro-German element in the Baltic Provinces, and the soldiers were promised land after the close of the war.

This army began to advance northward, getting behind the Esthonian forces and attacking them from the rear, while they were defending their native land against the superior forces of the Russians. The Landwehr was quickly defeated and driven back, and most of the German barons still living in Esthonia, fearing for their

lives, left the country.

On October 10, 1919, the Esthonian National Council passed the land law. The act grew out of political and economic necessity, but the land decrees of the Soviet Government were the immediate occasion for its passage. The land problem of Esthonia was urgent, and as the Russian soldiers had been promised land the Esthonian Government had to do something for the landless population of Esthonia to save her troops from communist demoralization.

The land problem had been a most acute problem for more than a generation. When the laws gave the peasants the right to emigrate beyond the boundaries of their own Province a large number emigrated to Siberia, Caucasus, Crimea, and the interior of Russia. It is estimated that about a quarter of a million Esthonians emigrated to Russia, all of whom prospered. Since the advent of the Soviet Government, however, a large number have been forced to return to their native land.

When the Esthonian land law was passed 2,428,087 hectares (5,868,686 acres), or 57.9 per cent of the agricultural land, belonged to the large estates, and 1,761,015 hectares (4,256,373 acres), or 42.1 per cent, to the small farmers. The large estates comprised 1,149 separate estates, the property of about 250 German families, while the minor portion of the land was owned by 51,140 small farmers.

Esthonia is an agricultural country and farming is the chief occupation of a majority of those gainfully occupied. The large estates were worked by hired laborers, usually married people, who received their pay partly in money and partly in provisions, with the right to keep a cow, a pig, and a few sheep. The husband was bound to work 300 days a year on his landlord's estate, and the wife was also bound to work a specified number of days a year when called upon by the landlord. The usual working hours before the war in summer were from sunrise to sundown, which meant from 4 a. m. till 9 p. m., and in winter were from 6 a. m. to 6 p. m., with two hours for dinner between 11 a. m. and 1 p. m.<sup>2</sup> In summer one hour was allowed for breakfast, at 8 a. m., and two hours for dinner, from 2 to 4 p. m.

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<sup>&</sup>lt;sup>1</sup> The writer has personally worked these hours in Esthonia.

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Farmers who were unable to work all their land themselves usually rented part of it or leased it on what is known in Esthonia as the "half-grain" basis (pooleterake). Under this arrangement the owner furnished the seed and the tenant worked the land, using his own implements. After the harvest the owner received the same measure of seed that was furnished in the spring, and the rest of the harvest was divided equally between the owner and the tenant.

#### Provisions of Land Law.

ACCORDING to the land law of October 10, 1919, the following lands were confiscated and declared the property of the State: 1. All baronial estates, including their small tenancies not yet sold: 2. All church estates, and farms belonging to the church which were rented; 3. All lands belonging to the Russian Government and to the Farmer's Bank.

The owners were to be reimbursed for their property in accordance with a special law, to be worked out in the future. The live stock, farm implements, and the rest of the equipment were to be paid for according to their valuation in 1914. The Esthonian Government has already paid the owners for all movable property, but not for the land, the law for that purpose not having yet been worked out.

The land law confiscated altogether 2,346,494 hectares (5,671,476 acres) or 96.6 per cent of the large holdings. Lands belonging to the cities and certain useful social institutions were not confiscated. Their total acreage is 81,593 hectares (197,210 acres). Of the confiscated land 28.3 per cent was to be parceled out as small farms of 20 to 40 acres (enough to support a family), 23 per cent was to be left in the hands of the former tenants, and 48.7 per cent, forest lands chiefly, was to be placed under the Ministry of Forestry.

The allocation of the land was left to the Ministry of Agriculture. The Government surveyor was to submit a plan after a careful study of the local conditions in each district, after which local boards composed of representatives of the local population were to consider the Provision was made for appeals applications in their legal order. from the decisions of the local boards.

Land was to be given principally to those engaged in farming who did not own any land or owned less than was necessary for the support of a family. Speculation and the subletting of the land were

The following was the order of priority among applicants to be followed in distributing the land:

1. Small tenants of the former large estates wno were in actual possession of their tenancies at the time the law was passed. They were to keep their hold-

2. Veterans who had been cited for bravery in the war of independence, had been decorated with the cross of the Republic, and during the war had been promised land as an honorary gift from the State.

3. Veterans who had been cited for bravery in the war and to whom the

Government had promised to give land without cost.

4. Disabled veterans who had lost over 40 per cent of their working power and who had been decorated with the cross of the Republic.

5. Veterans who had taken part in the actual fighting on the front.

6. Disabled veterans who had lost over 40 per cent of their working power. 7. Families of the veterans.

Veterans, according to the length of time in actual service.

9. All other applicants.

Those enumerated under clauses 2 to 8 had the right to apply for land also in districts in which they did not reside, in which case their allotments there were not to exceed 50 per cent of their whole allotments.

The land was to be given on the basis of a six-year lease, later to be extended to a life-term lease, and the tenants were to pay their rent directly to the State. A special commission was to determine the value of the land for rental purposes, basing their calculations on the valuation statistics of 1901 and 1906, the rent to be paid at the rate of 5 kilograms of rye where one ruble had previously been paid. The price of a kilogram of rye was fixed at 10 marks for continental Es-

thonia and at 7.5 marks for the island of Oesel.

The tenant was to be required to work his land according to the requirements of good husbandry. He was to have no right to dispose of manure or cattle feed except on his own land. He could make improvements on the land for which he was to receive a just compensation at the expiration of the lease if he wished then to leave. On the other hand, the State reserved the right to evict the tenant if he did not live up to the terms of the contract, if he cut State forest trees without authorization, if he failed to take proper care of the property and the buildings, or if he failed to pay his rent for two terms in succession.

The buildings on the property were to be sold to the tenants, who were to pay down 10 to 50 per cent of their value, the remainder to be paid during a 10 to 20 year period. Those who wished to rent the buildings were to pay 4 per cent of their value as annual rent, with an additional charge for depreciation. The tenants were to be allowed to cut State forest trees for building purposes, under special regulations.

The farm implements and other equipment on the large estates were to be sold to the tenants on a cash basis, their value to be fixed by a representative of the Ministry of Agriculture, the district representa-

tives, and the local officials.

Since there were not enough buildings available to accommodate all the new tenants and to meet the requirements of their individual households, it was necessary to erect a number of new buildings on each large estate, which necessitated extensive building loans. At the end of 1923 the tenant farmers were indebted to the Government as follows: For farm implements, 96,000,000 marks; on the buildings bought, 23,000,000 marks; for building material, 54,400,000 marks; for loans granted to buy farm implements, 1921 and 1922, 60,000,000 marks; for loans granted to buy farm implements in 1923, 25,000,000 marks; for building loans of 1922, 87,000,000 marks; and for building loans of 1923, 200,000,000 marks.

The loans to the tenants to buy the farm implements were from 20,000 to 30,000 marks each and bore 5½ per cent interest, the first installment of the debt to be paid in 1923, and the principal to be paid

up in five years.

For building purposes loans were made up to 30 per cent of the value of the building to those who bought their own material and up to 50 per cent to those who obtained the material from the State on credit. The debt on wooden buildings was to be refunded in 20 years and on stone buildings in 40 years. Those on whose land there were not the necessary buildings were to be given priority in procuring loans. The payment of interest on building loans was to begin the third or fifth

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year. The law also prescribed the length of time within which the buildings were to be completed. All the tenants were required to insure their buildings against fire.

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The land law was so extensive in its scope that it taxed the capacity of all the Government surveyors and land commissions for several years, and it became necessary to make many temporary arrangements in leasing the land. For this reason many large estates were

leased temporarily to local farmers and cooperative societies.

Up to September, 1923, 26,416 small farms had been created out of the confiscated large estates, and it was expected that 4,400 more would be parceled out by the end of the year. Stated briefly, the land law of 1919 restored to the native population of Esthonia the land that had been taken away from them by force of arms in the thirteenth century.

Effect of the Land Law.

IT IS hard to estimate correctly the benefits of the land law. Many other important factors must be taken into consideration, as the land law can not be isolated from other laws and acts which have greatly influenced the progress of Esthonia during the short period of her existence as an independent State. It is true that the land and its products are now in the hands of the working population, while in the past the greater part of these was in the hands of a small number of landlords. Whether the small farms will prove to be more efficient and more productive than their predecessors remains to be seen. At the present time the acreage under cultivation in some cases exceeds and in others is under the normal acreage previous to the war. The same can be said about the production. The Esthonians themselves, however, consider the land law a great success.

The total production in 1913, 1921, and 1922 was as follows:

TOTAL PRODUCTION OF AGRICULTURAL LANDS IN ESTHONIA IN 1913, 1921, AND 1922, COMPARED WITH THE AVERAGE FOR 1916 TO 1914.

Product.	Average for 1910-1914.	1913	1921	1922
Winter rye Winter wheat Barley Oats Potatoes Linseed Flax fiber	Tons. 170,000 7,000 114,800 109,300 754,800 12,500 12,000	Tons. 152, 000 6, 800 121, 200 130, 100 736, 400 14, 000 16, 000	Tons. 169, 800 7, 600 122, 700 159, 000 746, 900 7, 800 6, 600	Tons. 139, 600 9, 200 143, 200 143, 703 706, 700 8, 200 9, 303

According to the Esthonian Economic Bulletin the crops of rye and wheat in 1922 did not come up to expectations, heavy snows in the winter and a wet summer having spoiled the crops. Potatoes

were also spoiled by the wet summer.

The production of flax, although it is showing marked signs of increase, has not reached the pre-war standard. There are several good reasons for this, the main reason being the high wages of farm laborers and the fact that farm hands now receive overtime pay, which was not the case before the war, resulting in the decrease of the acreage under cultivation, since the growing of flax necessitates more labor than any other crop. In 1908 there were 96,187 acres where flax was under cultivation; in 1920, 50,049 acres; in 1921, 49,650 acres; and in 1922, 59,186 acres.

On the whole, it can be said that Esthonia has succeeded in returning to pre-war conditions of living. The best evidence of this is the stable exchange rate of the Esthonian mark, 340 to a dollar for the past three years. It is true that in the beginning of the current year the exchange rate fell to 365 marks to a dollar, but this was due in part to the failure of the crops caused by excessive rains and in part to the inauguration of a free-trade policy which brought about an

unfavorable trade balance.

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The rapid recovery of the country from the devastation of the war is shown by the State budget. In 1919 the budget closed with a deficit of 93 per cent, but in 1922, instead of an expected deficit, there was a considerable surplus, about one-third of the whole budget. In 1919 the export trade of Esthonia, of which farm products were one of the most important items, amounted to 389,000,000 marks, which increased gradually until in 1922 the exports were valued at 4,800,000,000 marks. In 1919, 1,387 commercial vessels entered the Esthonian ports, in 1922, 4,621, and the figure for 1923 promises to be much higher.

Esthonia has succeeded in making ends meet and at the same time paying some of the debts contracted during the war, and as agriculture is the principal occupation of the country, it may be concluded that this is due principally to the improved position of the

Esthonian farmer, made possible by the land law of 1919.

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# INDUSTRIAL RELATIONS AND LABOR CONDITIONS

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## Industrial Relations in the West Coast Lumber Industry.

STUDY of labor relations in the lumber industry in that part of western Washington and Oregon known as the West Coast. where the Douglas fir is the characteristic timber tree, is presented in Bulletin No. 349, recently issued by the United States Bureau of Labor Statistics.1

The migratory character of both the lumber industry and its workers and the nature of the industry have made for discontent among the workers, and the 10-hour standard working-day, in effect almost from the beginning of the industry, the fluctuation of wages and their variation from plant to plant, the insanitary camps, lack of family and community life, and unsatisfactory relations with foremen, have all had their effect in producing a very high labor turnover and a hostile attitude between employers and employees.

In an endeavor to discover the ability of the employers to grant the reasonable demands of the workers, the financial organization of the industry has been analyzed. The technology of the industry and the psychology of the workers have been studied for an understanding of the demands of the industry upon the workers and of their social viewpoints, which have influenced their attitude as to organization as a solution of their labor problems.

Attempts have been made through the trade-unions, the I. W. W. the shop-committee plan, cooperation, and the Loyal Legion of Loggers and Lumbermen to reach a solution of industrial relations problems in the industry. In this study their history and influence have been traced and the reactions of the employers described.

The latest development in the field of industrial relations in the industry is the Loyal Legion of Loggers and Lumbermen, or the Four L, as it is commonly called. This organization is an outgrowth of a strike during the summer of 1917, called by the I. W. W. and the trade-unions, into which the Government was brought because the strike interfered with the supply of lumber for one of the war After the termination of the strike the Four L was organized by the Government as a patriotic organization to stimulate lumber production for war purposes and for keeping industrial peace. After the war it was reorganized, by vote of employer and employee delegates, as an organization to promote closer relationship between employers and employees, to standardize and improve working and living conditions in the industry, and to provide means for an amicable settlement, on a just basis, of differences between employers and employees. The Four L plan is interesting as an experiment in industrial democracy in an industry where unionization, because of the nature of the industry, has not been strong.

<sup>&</sup>lt;sup>1</sup>U. S. Department of Labor, Bureau of Labor Statistics. Industrial relations in the West Coast lumber industry, by Cloice R. Howd. Washington, 1923. vi, 120 pp. Bulletin No. 349. Miscellaneous

It is in reality a large number of shop committees bound together into an industrial council, which determines standards for the industry as a whole, and which seeks to enforce the standards. By covering the whole of a competitive field it seeks to establish standards for the district which shall be just to labor and yet not injure the employer by discriminating between employers. \* \* \* The Four L undertook the task of setting and maintaining standards of wages, hours, and working conditions for the entire region by democratic action in which employers and employees should have an equal voice, and of adjusting on the basis of these standards all difficulties which might arise.

The Four L has been successful in a great measure, the preservation of the eight-hour day, established during the war, being due mainly to its support, while its influence has steadied the market and kept wages higher than they otherwise would have been. Probably its most important achievement has been the adjustment of matters of dispute or possible friction through conference. Its chief danger seems to lie in the ignorance, selfishness, and especially the neglect of those with whom it works. It seems to promise, however, constructive settlement of the majority of the labor problems of the industry.

Work of Railroad Labor Board, April, 1920, to November, 1923.

T THE end of Federal control of the railroads, March 1, 1920, the Railroad Labor Board began to function in the adjustment of wages and working conditions. The rates of pay and the working rules of every class of employees on all the railroads in the United States were in dispute or about to become so. The calendar of the board's work was not therefore a matter of gradual growth, but it commenced business with a docket congested with every form of wage and rules dispute conceivable, involving great sums of money, the industrial contentment of 2,000,000 employees, and the uninterrupted railway transportation indispensable to the welfare of every business and individual.

The reason why such an accumulation of controversies came to the board was that action upon an application for an increase of wages had been delayed by the United States Railroad Administration since the middle of the year 1919, and the bipartisan board failed to reach an agreement on the matter. The representatives of the carriers and the employees likewise failed to agree as to the perpetuation of working rules promulgated during Federal control. It was therefore necessary to submit these questions to some tribunal upon

which the nonpartisan public was represented.

The primary purpose of Congress in the enactment of the labor provisions of the transportation act, 1920, was not to have the Government assume the fixing of wages and working rules for railway employees, but to save the public as far as possible from the loss and suffering engendered by railway strikes. The board was not given the power to fix wages and working rules on its own initiative, but only where controversies arose involving these questions. The perfect freedom of the parties to negotiate agreements on all such questions was not curtailed by Congress; on the contrary, the duty of honestly endeavoring to reach agreements before taking arbitrary action was imperatively enjoined upon both management and men.

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<sup>&</sup>lt;sup>1</sup> Statement of Mr. Ben W. Hooper, chairman, Nov. 30, 1923.

There are three phases of the Railroad Labor Board's operations upon which Congress and the public are entitled to accurate information:

(1) The number of cases handled, i. e., the volume of work done

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by the board;

(2) The extent to which the board's decisions—merely advisory as they are—have been respected and obeyed by the carriers;

(3) The extent to which the board's decisions have been observed

or have been struck against by the employees.

These three questions are here treated in the order named.

## Number of Cases Handled.

FROM April 1, 1920, to November 1, 1923, 12,270 disputed questions were referred to the Railroad Labor Board. Of these, 10,671 have been disposed of. Of the total number of disputes 857 did not reach the status of regularly docketed cases. The cases regularly docketed, as in a court, number 11,413. Of these, 9,918 have been disposed of. In some instances, cases involving the same general question of wages or rules were consolidated under one docket and decision number.

The board is sometimes criticized for lack of promptness in handing down its decisions, but it has been a physical impossibility to keep its calendar cleared. It is, however, now closing cases more rapidly than new ones are filed and will soon catch up with its work.

## Have the Carriers Violated?

THE success of the work of the Railroad Labor Board must necessarily be measured by the extent to which its decisions have been respected by both parties, taking into consideration, of course, the abnormally difficult conditions under which it has operated so far.

There are in the United States 201 Class I carriers—big roads with large numbers of employees for the most part highly organized.

Upon formal investigation the board has found and declared that 25 of the 201 Class I carriers have violated one or more decisions of

The majority of these violations resulted from the action of carriers in entering into contracts with outside corporations or individuals for the performance of work ordinarily done by certain classes of the railway employees. These cases can hardly be characterized as willful and unquestioned violations of the board's decisions, inasmuch as the contracts were entered into under a claim of right, and the legal question involved is now before the Federal courts for adjudication. It must also be noted that after the board decided that such contracts could not operate to change arbitrarily the established rules and wages of the employees, all but a few of the carriers implicated withdrew from their objectionable contract. If, in view of these facts, the so-called contract cases be omitted from the calculation, there remain only 8 Class I carriers that have been found to have violated the board's decisions.

To what extent these 8 carriers have conformed to the board's decisions after having been formally declared to be violators is not fully known to the board. Some other carriers have been charged with violations of the board's decisions, but the board has not yet

investigated and passed upon such charges.

## Violations by Employees.

VIOLATIONS of the transportation act, 1920, or of the decisions of the Railroad Labor Board by the employees have been infrequent. In fact, there is only one way in which the employees can violate the act or the board's decisions, and that is by the drastic method of the strike. If they should violate otherwise, they would be subject to discharge from the service. Therefore, when one asks how many times the employees have violated, one is virtually asking how many times they have struck.

The strike on the Atlanta, Birmingham & Atlantic Railroad grew out of a peculiar stituation wherein a Federal court authorized a receiver to reduce wages below those fixed by the board and the men struck against the court's action and in support of the board's deci-

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The outlaw switchmen's strike of 1920 was under headway before

the Railroad Labor Board had organized.

The strike on the Missouri & North Arkansas Railroad might be classed as a violation of the board's decision, but the employees claim that the carrier in the first instance violated a decision and that they

subsequently refused to accept one.

The only case in which the employees have violated the transportation act, 1920, in a direct and absolute manner was in the recent strike of the engineers and firemen on the Virginian Railway. In this case they ignored the imperative provisions of the act by failing to first submit their grievances to the board before striking. They did, however, appear and present their side of the controversy when the board had assumed jurisdiction and cited them and the carrier.

In October, 1921, the train and engine brotherhoods took a strike vote and were in the act of calling a nation-wide strike when they desisted at the last moment as a result of the intervention of the board. This would have been the most disastrous strike that our

country ever saw.

The clerical employees represented by the Brotherhood of Railway and Steamship Clerks, Freight Handlers, Express and Station Employees struck on the Norfolk & Western Railroad and on the

Chesapeake & Ohio Railroad during the shop strike.

In the case of the shop strike of July 1, 1922, the shopmen did not by striking violate the transportation act. They went through all the procedure commanded by the law up to a final decision of the board and then exercised their lawful right to decline to accept the board's decision. Their act was as lawful as that of any carrier that violated a final decision of the board.

This strike wrought great injury to the carriers, the employees, and

the public. The shopmen lost much and won nothing by it.

It is worthy of note that no railway strike has succeeded since the creation of the Railroad Labor Board, and that for this reason the number of strikes compared with the immense number of controversies settled is infinitesimal.

As the only railroad strike of any magnitude which has occurred against a decision of the board, the shop strike has really served a useful public purpose, notwithstanding its disastrous effect. It has strengthened the transportation act by demonstrating that a railroad strike can not succeed against public sentiment, and that public

sentiment is likely to support the decisions of a tribunal fairly constituted upon which the public is represented.

It required one good-sized strike to make manifest the power of public sentiment behind the decisions of the board. The motive of those who now contend that the public should not be represented on such a board is quite obvious.

The decisions of a board composed only of representatives of the carriers and employees would often arouse the suspicion of collusion and would command no more public confidence than do the maneuvers of the coal operators and the miners. This fact was recognized by Congress when it wrote into the transportation act, 1920, the provisions that wage disputes should not be decided without the concurrence of at least one public member of the board.

Now, there are certain interested individuals who want a board

without public representation.

When such a bipartisan board agreed upon important matters, the cost would be passed on to a suspicious public. When it disagreed, and a strike resulted, the public would never know which party was in the wrong and public sentiment could not be definitely brought to bear on the situation.

# Negro Migration in 1923.

DURING the year ending September 1, 1923, according to data collected by the late Phil H. Brown, commissioner of conciliation of the Department of Labor, the negro migration from 13 Southern States reached a total of 478,700. This conclusion is drawn from figures furnished by State, municipal, and civic statisticians and officials. The following table shows the colored population of each of these States, the number of colored migrants, the proportion that these formed of the colored population, and the proportion that each State furnished of the total migration for the year:

NEGRO POPULATION AND NUMBER AND PER CENT OF NEGRO MIGRANTS, BY STATES, AND PER CENT MIGRANTS OF EACH STATE FORMED OF TOTAL MIGRATION, YEAR ENDING SEPTEMBER 1, 1923.

of the descript story and have		C	olored migran	its.
State.	Colored population.	Number.	Per cent of colored population.	Per cent of total colored migration.
Alabama Arkansas Florida Georgia Kentucky Louisiana Mississippi North Carolina Oklahoma South Carolina Tennessee Texas Virginia	900, 652 472, 220 329, 487 1, 206, 365 235, 938 700, 257 935, 184 763, 407 149, 408 864, 719 451, 788 741, 694 690, 017	90, 000 5, 000 90, 000 120, 600 2, 500 15, 000 82, 600 25, 000 1, 000 25, 000 10, 000	10. 0 1. 1 27. 3 10. 0 1. 1 2. 1 8. 8 3. 3 . 7 2. 9 2. 2 2 . 3 1. 4	18.1 1. 18.1 25. 3. 17. 5. 5. 2. 2.
Total	8, 441, 106	478, 700	5.7	100.

This table seems to show that while the boll weevil may have played an important part in causing the migration, as has been held to be the case in at least one State, it is by no means wholly responsible, since proportionately the migration is as large from noncotton-raising States as from those in which the weevil's depredations are changing the whole agricultural program. Among the cotton-raising States, Georgia shows a larger proportionate migration than Mississippi and a much larger one than Louisiana or either of the Carolinas. The relatively small migration from Texas and Oklahoma may have some connection with the long and troublesome journey involved.

In the spring of 1923 an effort was made to learn where the migrants were going and what proportion of skilled workers were included in their ranks. Pay-roll data were secured from 273 employers of negro labor in California, Connecticut, Delaware, Illinois, Indiana, Kansas, Kentucky, Maryland, Massachusetts, Michigan, Missouri, New Jersey, New York, Ohio, Oklahoma, and Wisconsin. A special study was made of a group of 19,747 negroes among the whole number of 60,421 employed on April 30, 1923, particularly as to the number whom employers could positively identify as having moved northward into employment during the past year. It was found that 4,702 or 23.8 per cent had come direct from the South during the year. Taking the whole group and allowing for those who could not be definitely assigned, the conclusion was reached that the distribution of migrants among the States listed can be approximately indicated by the following percentages:

	Per cent
Ohio	37. 26
Pennsylvania	21.63
Michigan	10, 53
New Jersey	6.40
New York	4. 76
Missouri	4.74
Illinois	4. 49
Kentucky	4. 36
Connecticut	3.04
Maryland	1. 30
Wisconsin	. 85
California	. 32
Oklahoma	. 26
Nondistributable	. 06
Total	100 00

It will be noticed that several of the States in this list are distinctly southern, and that one or two appear in the list of States from which migration is in progress. The department calls attention to the fact that the migration is a continuous process. Immigrants from the far South move northward, work in their new location for a time, and then move on until they reach the North, while new migrants fill their places as they move on. This is particularly noticeable along the border. "The reports indicated that migrants frequently come to border States, and after working a while use a portion of their earnings to remove to points of vantage farther north. This particular feature is, perhaps, largely productive of causes of turnover, which was not strongly noticeable in the States farthest north."

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<sup>1</sup> See Monthly Labor Review for January, 1924, pp. 32-35: "Negro migration from Georgia."

The 273 employers listed with the department had 60,421 colored workers on their pay rolls on April 30, 1923. An effort to learn what proportion of these were migrants led to the following conclusions:

	workers studied	
New Jersey		62, 19
Oklahoma		54, 54
Michigan		52. 27
Ohio		36. 01
California		30, 00
Pennsylvania		29, 82
Connecticut		20, 82
Missouri		19. 08
Wisconsin		19. 14
Kentucky		14. 91
Maryland		12.03
New York		11.88
Illinois		5. 17

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Unfortunately, the employers in Delaware, Indiana, Kansas, Massachusetts, and West Virginia, did not furnish reports on this point so these States are omitted from the list. The department feels that the distribution of migrants as shown above points to two conditions which strongly influence the migration—wages and types of employment available in Northern States, and geographical location. "No doubt, direct touch of trunk lines from southern points and the amount of railroad fare required have their effect upon these workers who desire to move northward; and on the other hand distinctive types of work with attractive wages form another inducement."

The classification of the workers as skilled or unskilled showed the following results:

	April 30, 1922.	April 30, 1923.
Skilled workers	10, 794	14, 951
Unskilled workers	31, 577	45, 470
Total	42 371	60 421

This shows an increase during the year of 38.5 per cent for the skilled and 44 per cent for the unskilled workers.

High marks were reached in the increase of negro skilled workers who advanced by 186.86 per cent in Maryland; 90.48 per cent in Connecticut; 70.73 per cent in Michigan; 68.97 per cent in Kansas; 68.04 per cent in Ohio; 60 per cent in California; 43.68 per cent in Pennsylvania; 39.94 per cent in Illinois; 33.33 per cent in Wisconsin; 30 per cent in New York; 18.18 per cent in Indiana; and 13.93 per cent in Kentucky. New Jersey and Oklahoma showed respective increases of 12.96 and 3.85 per cent in the number of negro workers taken on in the skilled occupations during the year, while West Virginia showed a loss of 1.82 per cent.

The percentage increase during the year in the number of unskilled colored workers ranged from 15.69 per cent in Oklahoma to 102.86 per cent in Indiana, with Connecticut and New Jersey both showing increases of between 80 and 90 per cent.

### PRICES AND COST OF LIVING.

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### Retail Prices of Food in the United States.

THE following tables are based on figures which have been received by the Bureau of Labor Statistics from retail dealers through monthly reports of actual selling prices.1

Table 1 shows for the United States retail prices of food, February 15, 1923, and January 15 and February 15, 1924, as well as the percentage changes in the year and in the month. For example, the price per dozen of strictly fresh eggs was 46.2 cents in February, 1923; 54.6 cents in January, 1924; and 49.8 cents in February, 1924. These prices show an increase of 8 per cent in the year and a decrease of 9 per cent in the month.

The cost of the various articles of food 2 combined show an increase of 4 per cent February 15, 1924, as compared with February 15, 1923, and a decrease of 1 per cent February 15, 1924, as compared with January 15, 1924.

TABLE 1.—AVERAGE RETAIL PRICES OF SPECIFIED FOOD ARTICLES AND PER CENT OF INCREASE OR DECREASE, FEBRUARY 15, 1924, COMPARED WITH FEBRUARY 15, 1923, AND JANUARY 15, 1924.

[Percentage changes of five-tenths of 1 per cent and over are given in whole numbers.]

Article.	Unit.	Averag	e retail pri	ce on—	(+) or (-) Fe	of increase decrease b. 15, 1924, ed with—
		Feb. 15, 1923.	Jan. 15, 1924.	Feb. 15, 1924.	Feb. 15, 1923.	Jan. 15, 1924.
Sirloin steak Round steak Rib roast Chuck roast Plate beef Pork chops Bacon Ham Lamb, leg of Hens Salmon, canned, red Milk, fresh Milk, evaporated 1 Butter I Oleomargarine Nut margarine Cheese Lard	do	19. 5 12. 8 28. 7 39. 4 45. 0 36. 0 35. 5 81. 3 13. 7 12. 1 57. 7	Cents. 39. 0 33. 3 28. 6 20. 7 13. 3 27. 4 37. 2 44. 7 35. 9 34. 5 31. 2 14. 2 12. 2 12. 2 61. 3 30. 6 28. 9 37. 4 18. 7	Cents. 38. 7 33. 0 28. 3 20. 4 13. 3 26. 7 36. 6 44. 4 35. 7 35. 1 31. 2 14. 0 12. 1 60. 2 30. 7 29. 0 37. 2 18. 0	+4 +5 +3 +5 +4 -7 -7 -1 -1 -0.3 +2 0 +4 +6 +9 -1 +3	$\begin{array}{c} -1 \\ -1 \\ -1 \\ -1 \\ 0 \\ -3 \\ -2 \\ -1 \\ +1 \\ +2 \\ 0 \\ -1 \\ -1 \\ -2 \\ +0.3 \\ +0.3 \\ -1 \\ -4 \end{array}$
Vegetable lard substitute Eggs, strictly fresh I Eggs, storage Bread Flour Corn meal	ozendodo	46. 2 42. 4 8. 7	24. 3 54. 6 38. 6 8. 7 4. 5 4. 4	24. 5 49. 8 39. 3 8. 7 4. 6 4. 4	+9 +8 -7 0 -6 +10	$^{+1}_{-9}_{+2}$ $^{0}_{+2}$

<sup>1</sup> In addition to monthly retail prices of food and coal, the bureau secures prices of gas and electricity from each of 51 cities. These prices are published at quarterly intervals in the Monthly Labor Review. Retail prices of dry goods were published quarterly until November, 1923.

<sup>2</sup> The following 22 articles, weighted according to the consumption of the average family, have been used from January, 1913, to December, 1920: Sirloin steak, round steak, rib roast, chuck roast, plate beef, pork chops, bacon, ham, lard, hens, flour, corn meal, eggs, butter, milk, bread, potatoes, sugar, cheese, rice, coffee, and tea. The remainder of the 43 articles shown in Tables 1 and 2 have been included in the weighted aggregates for each month beginning with January, 1921. aggregates for each month beginning with January, 1921.

TABLE 1.—AVERAGE RETAIL PRICES OF SPECIFIED FOOD ARTICLES AND PER CENT OF INCREASE OR DECREASE, FEBRUARY 15, 1924, COMPARED WITH FEB. RUARY 15, 1923, AND JANUARY 15, 1924—Concluded.

Article.	Unit.	Averag	e retail pri	ice on—	(-) Fe	of increase decrease b. 15, 1924 ed with—
or mod wait staids on	ngBrans beg	Feb. 15, 1923.	Jan. 15 1924.	Feb. 15, 1924.	Feb. 15, 1923,	Jan. 15, 1924,
Rolled oats Corn flakes Wheat cereal Macaroni Rice Beans, navy Potatoes Onions. Cabbage Beans, baked. Corn, canned Peas, canned Tomatoes, canned Sugar, granulated. Tea. Coffee Prunes Raisins Bananas Oranges. All articles combined 1		Cents. 8.7 9.7 24.8 19.8 9.4 11.3 2.1 5.3 2.1 15.4 17.4 12.8 8.7 68.9 18.7 36.9 47.1	Cents.  8.8 9.7 24.3 19.6 9.8 10.1 2.8 6.1 12.9 15.7 17.9 10.2 71.0 38.2 17.9 15.9 38.8 40.0	Cents.  8. 8. 9. 7 24. 3 19. 6 9. 8 10. 0 2. 8 6. 0 15. 7 17. 9 10. 3 70. 9 38. 8 17. 8 15. 8 38. 1 39. 5	+1 9 -2 -1 +4 -12 +33 +13 +15 -2 +2 +3 +1 +18 +3 +3 +1 -16 +3 -16	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

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Table 2 shows for the United States average retail prices of specified food articles on February 15, 1913, and on February 15 of each year from 1918 to 1924, together with percentage changes in February of each of these specified years, compared with February, 1913. For example, the price per pound of hens was 20.7 cents in February, 1913; 36.2 cents in February, 1918; 39.6 cents in February, 1919; 44.7 cents in February, 1920; 42.9 cents in February, 1921; 36.9 cents in February, 1922; 35.5 cents in February, 1923; and 35.1 cents in February, 1924.

As compared with the average price in February, 1913, these figures show the following percentage increases: 75 per cent in February, 1918; 91 per cent in February, 1919; 116 per cent in February, 1920; 107 per cent in February, 1921; 78 per cent in February, 1922; 71 per cent in February, 1923; and 70 per cent in February, 1924.

The cost of the various articles of food combined showed an increase of 52 per cent in February, 1924, as compared with February, 1913.

<sup>1</sup> See note 2, p. 67.

TABLE 2.—AVERAGE RETAIL PRICES OF SPECIFIED FOOD ARTICLES AND PER CENT OF INCREASE OR DECREASE FEBRUARY 15 OF CERTAIN SPECIFIED YEARS, COMPARED WITH FEBRUARY 15, 1913.

[Percentage changes of five-tenths of 1 per cent and over are given in whole numbers.]

Article.	Unit.		Aver	age re	tail p	rice	Feb.	15-		(-	) Fe	finere b. 15 npare	of e	ach	spec	ifie
		1913	1918	1919	1920	1921	1922	192	3 1924	1918	1919	1920	1921	1922	1923	192
		Cts.	Cts.	Cts.	Cts.	Cts	Cts	Cts	Cts							
Sirloin steak	Pound.	23. 9	33. 4	41. 2					1 38. 7	+40	+72	+70	+60	+47	+55	+6
Pound steak	do	[20, 6]	31.4	38. 8	37.2	34. 2	30. 2	31.	5 33.0	+52	+88	+81	+66	+47	+53	+6
Rib roast	do	18.8	26. 3	32.6	31.5	29.3	26. 5	27.	5 28. 3	+40	+73	+68	+56	+41	+46	+5
Chuck roast	do	14.9	22. 7	27. 9	25. 1	22.0	18. 9	19.	5 20. 4	+52	+87	+68	+48	+27	+31	+3
Dlata heef		11, 3	17. 7	21.9	18. 4	15, 6	12.8	12.	3 13. 3	+57	+94	+63	+38	+13	+13	+1
Park chons	do	118.91	33. 6	37. 9	37.7	32.7	29.3	28.	7 26. 7	+78		+99		+55	+52	+4
Dagon	do	25. 5	48.4	55.3	50.3	44. 7	37.9	139	136 6	+90	+117	+97	+75	+49	+55	+4
Ham	do	25. 4	43.8	51.8	50.7	48. 2	46, 5	45.	0 44. 4	+72	+104	+100	+90	+83	+77	+7
Lamb	do	18. 5	31.4	36.4	39.0	34. 2	35. 4	36.	35. 7	+70	+97	+111	+85	+91	+95	+9
Hens	do	20.7	36. 2	39. 6	44.7	42.9	36. 9	35.	5 35. 1	+75	+91	+116	+107	+78	+71	1+7
Salmon, canned, red .	do		129. 1	131.7	137.6	39. 1	32. 8	31.	31.2							
Milk, fresh Milk, evaporated	Quart	8. 9	13. 4	15. 5	16.7	15. 4	13. 2	13.7	7 14. 0	+51	+74	+88	+73	+48	+54	+5
Milk, evaporated	(2)			16. 4	16. 2	14.7	11.6	12.	1 12. 1							
Butter	Pound.	41.2	57. 9	57. 2	72.6	56. 5	45. 9	57.	7 60.2	+41	+39	+76	+37	+11	+40	+4
ButterOleomargarine	do			39. 2	43. 4	35. 4	28. 3	29. 0	30.7							
Nut margarine	do			35. 9	36. 1	32. 3	27.5	26. 7	7 29. 0		*****		****		***	
Nut margarine	do	22.2	34.9	40.9	43.3	38.4	32. 9	37.	5 37. 2	+57	+84	+95	+73	+48	+69	+6
Lard	do	15. 4	33. 0	32. 1	32.3	20. 7	15. 9	17.4	118.0	114	+108	+110	+34	+3	+13	+1
Vegetable lard sub-	do			33. 8	38. 1											
Eggs, strictly fresh	Dozen .	31. 5	62.7	50. 6	68. 5	47.9	48. 4	46. 2	49.8	+99	+61	+117	+52	+54	+47	+5
Eggs, storage	do	23. 5	54. 7	46. 8	59.4	44. 4	39. 1	42.	39.3	+133	+99	+153	+89	+66	+80	+6
Bread	Pound .	5. 6	9. 5	9.3	11.1	10. 6	8.6	8.7	8.7	+70	+75	+98	+89	+54	+55	+5
BreadFlour	do	3.3	6.6	6. 7	8. 1	6. 5	5. 1	4. 8	4.6	+100	+103	+145	+97	+55	+48	+3
Corn meal	do	2.9	7. 0	6. 0	6. 5	5.0	3. 9	4. (	4.4	+141	+107	+124	+72	+34	+38	+5
Rolled oats	do			8. 4	10.1	10.4	. 8. 9	8.7	8.8							
Corn flakes	(3)			4. 1	14. 1	14.0	10.3	9.7	9.7							
Wheat cereal	(1)			25. 1	29.3	30.0	26. 2	24. 8	3 24.3							
Macaroni	Pound.			19.4	20.0	21.3	20. 2	19. 8	19.6							
Corn flakes Wheat cereal Macaroni Rice	do	8.6	11.8	14.3	18.3	10.5	. 9. 3	9.4	9.8	+37	+66	+113	+22	+8	+9	+1
Beans, navy	00		18, 11	13. (	12. 2	5. 0	8. 3	111. 6	913U, 49							
Potatoes	do	1.5	3, 2	3. 1	6.0	2. 6	3.3	2.1	2.8	+113	+107	+300	+73	+120	+40	+8
Onions	do		4 9	4 3	9.3	3.9	10.9	5. 3	6. 0							
					9.3	3.6	5.7	4.7	5. 4							
Beans, baked	(6)			18. 6	16. 9	15.3	13. 3	13. 1	12.9							
Corn, canned	(3)			19.6	18.6	17. 1	15. 9	15. 4	15. 7							
Cabbage Beans, baked Corn, canned Peas, canned Tomatoes, canned Sugar, granulated	(5)			19. 2	19. 1	18.2	17.8	17.4	17.9							
Tomatoes, canned	(5)			17.0	15. 2	12.2	13. 4	12. 8	12.9							
Sugar, granulated	Pound.	5. 5	10.6	10.7	18.8	8.9	6. 4	8. 7	10.3	+93	+95	+242	+62	+16	+58	+8
Coffee	do	29.8	30, 4	36, 6	49, 1	37. 5	35, 6	37. 5	38, 8	+2	+23	+65	+26	+19	+26	+3
Prunes	do		16. 5	20. 3	29.0	22.5	18, 8	19. 9	17.8							
Raisins	do		15. 0	16. 2	25. 6	31.9	24.8	118.7	115 8							1
Bananas	Dozen .			35. 0	41.0	41.0	36, 8	36. 9	38. 1							
Oranges	do			46.8	53. 4	45.3	48. 5	47.1	39. 5							
All articles combined 6			- 1						7	2 000	4 1000	V 10 10 10	1 000		+47	

<sup>&</sup>lt;sup>1</sup> Both pink and red. <sup>2</sup> 15-16 ounce can.

ND PER

of increase decrease

specieach ruary For 1913; 44.7 cents ts in

these ebruuary, 1922;

4.

rease 1913.

Table 3 shows the changes in the retail prices of each of 22 articles of food 3 as well as the changes in the amounts of these articles that could be purchased for \$1, each year, 1913 to 1923, and in February,

<sup>&</sup>lt;sup>3</sup> 8-ounce package. <sup>4</sup> 28-ounce package.

No. 2 can.
 See Note 2, page 67.

Although monthly prices on 43 food articles have been secured since January, 1919, prices on only 22 of these articles have been secured each month since 1913.

TABLE 3.—AVERAGE RETAIL PRICES OF SPECIFIED ARTICLES OF FOOD AND AMOUNT PURCHASABLE FOR \$1, IN EACH YEAR, 1913 TO 1923, AND IN FEBRU. ARY, 1924.

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for

	Sirloin	steak.	Round	steak.	Rib	roast.	Chuck	roast	Plate	beef.	Pork	chops
Year.	Average retail price.	Amt. for \$1.	A verage retail price.	Amt. for \$1.	Average retail price.	Amt. for \$1.	Average retail price.	Amt for \$1.	Average retail price.	Amt. for \$1.	Average retail price.	Am for §
	Per lb.		Per lb.	Lbs.	Per lb.	Lbs.	Per lb.	Lbs.	Per lb.	Lbs.	Per lb.	Lbs
913	\$0. 254	3. 9	\$0. 223	4.5	\$0.198	5. 1	\$0, 160	6.3	\$0.121	8. 3	\$0.210	4
914		3.9	. 236	4. 2	. 204	4. 9	. 167	6.0	. 126	7.9	. 220	4
15		3.9	. 230	4.3	. 201	5. 0	. 161	6. 2	. 121	8.3	. 203	4
16		3.7	. 245	4. 1	. 212	4.7	. 171	5. 8	. 128	7.8	. 227	4
17 18		3. 2	. 290	3.4	. 249	4. 0	. 209	4.8	. 157	6. 4	. 319	
19		2.6	. 369	2.7	. 307	3. 3	. 266	3. 8	. 206	4. 9	. 390	- 4
20		2.3	. 395	2. 5	. 332	3. 0	. 262	3. 8	. 202	5. 0 5. 5	. 423	2
21	388	2.6	. 344	2. 9	. 291	3. 4	212	4. 7	. 143	7. 0	. 423	
22	374	2.7	. 323	3. 1	. 276	3. 6	. 197	5. 1	.128	7.8	. 349	1
23	391	2.6	. 335	3. 0	. 284	3. 5	, 202	5. 0	.129	7. 8	. 330	-
24: February.		2.6	. 330	3. 0	. 283	3, 5	. 204	4. 9	. 133	7.5	. 267	1
		1 - 111	1								1.201	8
	Bac	eon.	На	m.	Lai	rd.	He	ns.	Eg	gs.	But	ter.
Min Breit	Per lb.	Lbs.	Per lb.	Lbs.	Per lb.	Lbs.	Per lb.	Lbs.	Per dz.	Dozs.	Per lb.	Lbs
13	\$0. 270	3.7	\$0. 269	3. 7	\$0. 158	6.3	\$0. 213	4. 7	\$0.345	2. 9	\$0.383	1
4	. 275	3.6	. 273	3. 7	. 156	6.4	. 218	4.6	. 353	2.8	. 362	1
5		3. 7	. 261	3.8	. 148	6.8	. 208	4.8	. 341	2. 9	. 358	-
6	. 287	3.5	. 294	3.4	. 175	5.7	. 236	4. 2	. 375	2. 7	. 394	2
7		2.4	. 382	2.6	. 276	3. 6	. 286	3. 5	. 481	2. 1	. 487	1
9	. 554	1.8	. 479	2. 1	. 333	3. 0	. 377	2.7 2.4	. 569	1.8	. 577	
20		1. 9	. 534	1.8	. 369	2. 7 3. 4	.411	2. 4	. 628	1.6	. 678	
21	. 323	2. 3	. 488	2.0	. 180	5. 6	397	2. 5	. 509	2. 0	. 701	1
22	. 398	2.5	. 488	2.0	.170	5. 9	360	2.8	. 444	2. 3	. 479	1
23	. 391	2.6	. 455	2. 2	. 177	5. 6	. 350	2.9	. 465	2. 2	. 554	Í
4: February	. 366	2. 7	. 444	2. 3	.180	5. 6	. 351	2. 8	. 498	2. 0	. 602	
	. 366 2. 7 Cheese.		Milk.		Bre	od	Flo	ur	Corn	meal	Ri	ce.
	Che	ese.	Mi	k.	2320	au.	F 10	CAL .		anscer.	1	
	Per lb.	ese.	Mil Per qt.	Qts.	Per lb.	Lbs.	Per lb.	Lbs.	Per lb.	Lbs.	Per lb.	Lb
	Per lb.	Lbs. 4.5	Per qt. \$0. 089	Qts. 11. 2	Per lb. \$0. 056	Lbs. 17. 9	Per 1b. \$0. 033	Lbs. 30. 3	Per lb.	Lbs. 33. 3	Per lb. \$0. 087	
4	Per lb. \$0. 221	Lbs. 4.5 4.4	Per qt. \$0. 089 . 089	Qts. 11. 2 11. 2	Per lb. \$0. 056	Lbs. 17. 9 15. 9	Per lb. \$0. 033 , 034	Lbs. 30. 3 29. 4	Per lb. \$0, 030 , 032	Lbs. 33. 3 31. 3	Per lb. \$0, 087	11
4 5	Per lb. \$0. 221 . 229- . 233	Lbs. 4.5 4.4 4.3	Per qt. \$0. 089 . 089 . 088	Qts. 11. 2 11. 2 11. 4	Per lb. \$0. 056 . 063 . 070	Lbs. 17. 9 15. 9 14. 3	Per lb. \$0. 033 . 034 . 042	Lbs. 30, 3 29, 4 23, 8	Per lb. \$0, 030 . 032 . 033	Lbs. 33. 3 31. 3 30. 3	Per lb. \$0. 087 . 088 . 091	1
4 5 6	Per lb. \$0. 221 . 229- . 233 . 258	Lbs. 4.5 4.4 4.3 3.9	Per qt. \$0. 089 . 089 . 088 . 091	Qts. 11. 2 11. 2 11. 4 11. 0	Per lb. \$0.056 .063 .070 .073	Lbs. 17. 9 15. 9 14. 3 13. 7	Per lb. \$0. 033 . 034 . 042 . 044	Lbs. 30. 3 29. 4 23. 8 22. 7	Per lb. \$0, 030 . 032 . 033 . 034	Lbs. 33. 3 31. 3 30. 3 29. 4	Per lb. \$0. 087 . 088 . 091 . 091	and and and
4	Per lb. \$0. 221 . 229- . 233 . 258 . 332	Lbs. 4.5 4.4 4.3 3.9 3.0	Per qt. \$0.089 .089 .088 .091 .112	Qts. 11. 2 11. 2 11. 4 11. 0 9. 0	Per lb. \$0.056 .063 .070 .073 .092	Lbs. 17. 9 15. 9 14. 3 13. 7 10. 9	Per lb. \$0. 033 . 034 . 042 . 044 . 070	Lbs. 30, 3 29, 4 23, 8 22, 7 14, 3	Per lb. \$0, 030 . 032 . 033 . 034 . 058	Lbs. 33. 3 31. 3 30. 3 29. 4 17. 2	Per lb. \$0. 087 . 088 . 091 . 091 . 104	
4	Per lb. \$0. 221 . 229 . 233 . 258 . 332 . 359	Lbs. 4.5 4.4 4.3 3.9 3.0 2.8	Per qt. \$0. 089 . 089 . 088 . 091 . 112 . 139	Qts. 11. 2 11. 2 11. 4 11. 0 9. 0 7. 2	Per lb. \$0.056 .063 .070 .073 .092 .098	Lbs. 17. 9 15. 9 14. 3 13. 7 10. 9 10. 2	Per lb. \$0. 033 . 034 . 042 . 044 . 070 . 067	Lbs. 30. 3 29. 4 23. 8 22. 7 14. 3 14. 9	Per lb. \$0, 030 . 032 . 033 . 034 . 058 . 068	Lbs. 33. 3 31. 3 30. 3 29. 4 17. 2 14. 7	Per lb. \$0. 087 . 088 . 091 . 091 . 104 . 129	
4	Per 1b. \$0. 221 . 229- . 233 . 258 . 332 . 359 . 426	Lbs. 4.5 4.4 4.3 3.9 3.0 2.8 2.3	Per qt. \$0.089 .089 .088 .091 .112 .139 .155	Qts. 11. 2 11. 2 11. 4 11. 0 9. 0 7. 2 6. 5	Per lb. \$0.056 .063 .070 .073 .092 .098 .100	Lbs. 17. 9 15. 9 14. 3 13. 7 10. 9 10. 2 10. 0	Per 1b. \$0. 033 . 034 . 042 . 044 . 070 . 067 . 072	Lbs. 30. 3 29. 4 23. 8 22. 7 14. 3 14. 9 13. 9	Per 1b. \$0, 030 . 032 . 033 . 034 . 058 . 068 . 064	Lbs. 33. 3 31. 3 30. 3 29. 4 17. 2 14. 7 15. 6	Per lb. \$0. 087 . 088 . 091 . 091 . 104 . 129 . 151	
4	Per lb. \$0. 221 .229 .233 .258 .332 .359 .426 .416	Lbs. 4.5 4.4 4.3 3.9 3.0 2.8 2.3 2.4	Per qt. \$0.089 .089 .088 .091 .112 .139 .155 .167	Qts. 11. 2 11. 2 11. 4 11. 0 9. 0 7. 2 6. 5 6. 0	Per lb. \$0.056 .063 .070 .073 .092 .098 .100 .115	Lbs. 17. 9 15. 9 14. 3 13. 7 10. 9 10. 2 10. 0 8. 7	Per 1b. \$0. 033 . 034 . 042 . 044 . 070 . 067 . 072 . 081	Lbs. 30. 3 29. 4 23. 8 22. 7 14. 3 14. 9 13. 9 12. 3	Per 1b. \$0, 030 . 032 . 033 . 034 . 058 . 068 . 064 . 065	Lbs. 33.3 31.3 30.3 29.4 17.2 14.7 15.6 15.4	Per lb. \$0. 087 . 088 . 091 . 091 . 104 . 129 . 151 . 174	
4	Per lb. \$0. 221 .229 .233 .258 .332 .359 .426 .416 .340	Lbs. 4.5 4.4 4.3 3.9 3.0 2.8 2.3 2.4	Per qt. \$0.089 .089 .088 .091 .112 .139 .155 .167	Qts. 11. 2 11. 2 11. 4 11. 0 9. 0 7. 2 6. 5 6. 0 6. 8	Per lb. \$0.056 .063 .070 .073 .092 .098 .100 .115	Lbs. 17. 9 15. 9 14. 3 13. 7 10. 9 10. 2 10. 0 8. 7 10. 1	Per lb. \$0. 033 . 034 . 042 . 044 . 070 . 067 . 072 . 081 . 058	Lbs. 30. 3 29. 4 23. 8 22. 7 14. 3 14. 9 13. 9 12. 3 17. 2	Per lb. \$0, 030 . 032 . 033 . 034 . 058 . 068 . 064 . 065 . 045	Lbs. 33. 3 31. 3 30. 3 29. 4 17. 2 14. 7 15. 6 15. 4 22. 2	Per lb. \$0. 087 . 088 . 091 . 091 . 104 . 129 . 151 . 174 . 095	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
4	Per lb. \$0. 221 229- .233 .258 .332 .359 .426 .416	Lbs. 4.5 4.4 4.3 3.9 3.0 2.8 2.3 2.4 2.9 3.0 2.7	Per qt. \$0.089 .089 .088 .091 .112 .139 .155 .167	Qts. 11. 2 11. 2 11. 4 11. 0 9. 0 7. 2 6. 5 6. 0 6. 8 7. 6	Per lb. \$0.056 .063 .070 .073 .092 .098 .100 .115	Lbs. 17. 9 15. 9 14. 3 13. 7 10. 9 10. 2 10. 0 8. 7	Per 1b. \$0. 033 . 034 . 042 . 044 . 070 . 067 . 072 . 081	Lbs. 30. 3 29. 4 23. 8 22. 7 14. 3 14. 9 13. 9 12. 3 17. 2 19. 6	Per 1b. \$0,030 .032 .033 .034 .058 .068 .064 .065 .045	Lbs. 33.3 31.3 30.3 29.4 17.2 14.7 15.6 15.4	Per lb. \$0. 087 . 088 . 091 . 091 . 104 . 129 . 151 . 174 . 095 . 095	11 11 11 11 11 11 11 11 11 11 11 11 11
4	Per 1b. \$0. 221 .229- .223 .258 .332 .359 .426 .416 .340 .329	Lbs. 4.5 4.4 4.3 3.9 3.0 2.8 2.3 2.4	Per qt. \$0.089 .089 .088 .091 .112 .139 .155 .167 .146 .131	Qts. 11. 2 11. 2 11. 4 11. 0 9. 0 7. 2 6. 5 6. 0 6. 8	Per lb. \$0.056 .063 .070 .073 .092 .098 .100 .115 .099 .087	Lbs. 17. 9 15. 9 14. 3 13. 7 10. 9 10. 2 10. 0 8. 7 10. 1 11. 5	Per 1b. \$0. 033 .034 .042 .044 .070 .067 .072 .081 .058 .051	Lbs. 30. 3 29. 4 23. 8 22. 7 14. 3 14. 9 13. 9 12. 3 17. 2	Per lb. \$0, 030 . 032 . 033 . 034 . 058 . 068 . 064 . 065 . 045	Lbs. 33. 3 31. 3 30. 3 29. 4 17. 2 14. 7 15. 6 15. 4 22. 2 25. 6	Per lb. \$0. 087 . 088 . 091 . 091 . 104 . 129 . 151 . 174 . 095	111111111111111111111111111111111111111
18	Per 1b. \$0. 221 .229 .233 .258 .332 .359 .426 .416 .340 .329 .369	Lbs. 4. 5 4. 4 4. 3 3. 9 3. 0 2. 8 2. 3 2. 4 2. 9 3. 0 2. 7 2. 7	Per qt. \$0.089 .089 .088 .091 .112 .139 .155 .167 .146 .131 .138	Qts. 11. 2 11. 2 11. 4 11. 0 9. 0 7. 2 6. 5 6. 0 6. 8 7. 6 7. 2 7. 1	Per 1b. \$0.056 .063 .070 .073 .092 .098 .100 .115 .099 .087	Lbs. 17. 9 15. 9 14. 3 13. 7 10. 9 10. 2 10. 0 8. 7 10. 1 11. 5 11. 5	Per 1b. \$0. 033 .034 .042 .044 .070 .067 .072 .081 .058 .051 .047	Lbs. 30. 3 29. 4 23. 8 22. 7 14. 3 14. 9 12. 3 17. 2 19. 6 21. 3 21. 7	Per lb. \$0,030 .032 .033 .034 .058 .068 .064 .065 .045 .039 .041	Lbs. 33. 3 31. 3 30. 3 29. 4 17. 2 14. 7 15. 6 15. 4 22. 2 25. 6 24. 4	Per lb. \$0. 087 .088 .091 .104 .129 .151 .174 .095 .095	Lbt 111 111 111 111 111 111 111 111 111 1
4	Per lb. \$0. 221	Lbs. 4.5 4.4 4.3 3.9 3.0 2.8 2.3 2.4 2.9 3.0 2.7 2.7	Per qt. \$0.089 .089 .088 .091 .112 .139 .155 .167 .146 .131 .138 .140	Qts. 11. 2 11. 2 11. 4 11. 0 9. 0 7. 2 6. 5 6. 0 6. 8 7. 6 7. 2 7. 1 ar.	Per lb. \$0.056 .063 .070 .073 .092 .098 .100 .115 .099 .087 .087 .087	Lbs. 17. 9 15. 9 14. 3 13. 7 10. 9 10. 2 10. 0 8. 7 10. 1 11. 5 11. 5 11. 5 Lbs.	Per lb. \$0.033 .034 .042 .044 .070 .067 .072 .081 .047 .046 .058 .051 .047 .046	Lbs. 30. 3 29. 4 23. 8 22. 7 14. 3 14. 9 12. 3 17. 2 19. 6 21. 3 21. 7	Per lb. \$0,030 .032 .033 .034 .058 .068 .064 .065 .045 .039 .041	Lbs. 33. 3 31. 3 30. 3 29. 4 17. 2 14. 7 15. 6 15. 4 22. 2 25. 6 24. 4	Per lb. \$0. 087 .088 .091 .104 .129 .151 .174 .095 .095	111111111111111111111111111111111111111
4	Per lb. \$0. 221	Lbs. 4.5 4.4 4.3 3.9 3.0 2.8 2.3 2.4 2.9 3.0 2.7 2.7 2.7 toes. 58.8	Per qt. \$0.089 .089 .088 .091 .112 .139 .155 .167 .146 .131 .138 .140  Sug	Qts. 11. 2 11. 2 11. 4 11. 0 9. 0 7. 2 6. 5 6. 8 7. 6 7. 2 7. 1  ar.	Per lb., \$0.056 .063 .070 .073 .092 .098 .100 .115 .099 .087 .087 .087	Lbs. 17. 9 15. 9 14. 3 13. 7 10. 9 10. 2 10. 0 8. 7 10. 1 11. 5 11. 5 11. 5 11. 5	Per lb. \$0.033 .034 .042 .044 .070 .067 .072 .081 .047 .046 Te	Lbs. 30, 3 29, 4 23, 8 22, 7 14, 3 14, 9 12, 3 17, 2 19, 6 21, 3 21, 7 Lbs. 1, 8	Per lb. \$0,030 .032 .033 .034 .058 .068 .064 .065 .045 .039 .041	Lbs. 33. 3 31. 3 30. 3 29. 4 17. 2 14. 7 15. 6 15. 4 22. 2 25. 6 24. 4	Per lb. \$0. 087 .088 .091 .104 .129 .151 .174 .095 .095	111111111111111111111111111111111111111
4	Per lb. \$0. 221 229-233 258 332 359 426 416 340 329 369 372 Potal	Lbs. 4.5 4.4 4.3 3.9 3.0 2.8 2.3 2.4 2.9 3.0 2.7 2.7 toes.	Per qt. \$0.089 .088 .091 .112 .139 .155 .167 .146 .131 .138 .140 Sug	Qts. 11. 2 11. 2 11. 4 11. 0 9. 0 7. 2 6. 5 6. 0 6. 8 7. 6 7. 2 7. 1 ar.	Per lb., \$0.056 . 063 . 070 . 073 . 092 . 098 . 100 . 115 . 099 . 087 . 087 . 087 . 087 . 087 . 087 . 298 . 297	Lbs. 17.9 15.9 14.3 13.7 10.9 10.2 10.0 8.7 10.1 11.5 11.5 11.5 11.5 11.5 13.4 3.4 3.4	Per lb. \$0. 033 034 042 044 070 067 072 081 058 051 047 046 046 Te	Lbs. 30. 3 29. 4 23. 8 22. 7 14. 3 14. 9 12. 3 17. 2 19. 6 21. 3 21. 7 Lbs. 1. 8 1. 8	Per lb. \$0,030 .032 .033 .034 .058 .068 .064 .065 .045 .039 .041	Lbs. 33. 3 31. 3 30. 3 29. 4 17. 2 14. 7 15. 6 15. 4 22. 2 25. 6 24. 4	Per lb. \$0. 087 .088 .091 .104 .129 .151 .174 .095 .095	
4	Per lb. \$0. 221	Lbs. 4.5 4.4 4.3 3.9 9 3.0 2.8 2.3 2.4 4.2 9 3.0 2.7 2.7 toes.	Per qt. \$0.089 .089 .088 .091 .112 .139 .155 .167 .146 .131 .138 .140 Sug	Qts. 11. 2 11. 2 11. 4 11. 0 9. 0 7. 2 6. 5 6. 0 6. 8 7. 6 7. 2 7. 1 ar.  Lbs. 18. 2 16. 9 15. 2	Per lb. \$0.056 .063 .070 .073 .092 .098 .100 .115 .099 .087 .087 .087 .087 .087 .087 .087 .087	Lbs. 17. 9 14. 3 13. 7 10. 9 10. 2 10. 0 111. 5 11. 5 11. 5 11. 5 12. 3 . 4 3 . 4 3 . 3	Per lb. \$0. 033 .034 .042 .044 .070 .067 .072 .081 .058 .051 .047 .046 .046 .046 .046 .046 .046 .046 .046	Lbs. 30. 3 29. 4 23. 8 22. 7 14. 3 14. 9 13. 9 17. 2 19. 6 21. 3 21. 7 a. Lbs. 1. 8 1. 8 1. 8	Per lb. \$0,030 .032 .033 .034 .058 .068 .064 .065 .045 .039 .041	Lbs. 33. 3 31. 3 30. 3 29. 4 17. 2 14. 7 15. 6 15. 4 22. 2 25. 6 24. 4	Per lb. \$0. 087 .088 .091 .104 .129 .151 .174 .095 .095	111111111111111111111111111111111111111
4	Per lb. \$0. 221 229 233 258 332 359 426 416 340 329 369 372 Potat Per lb. \$0. 017 018 015 027	Lbs. 4.5 4.4 4.3 3.9 9 3.0 2.8 2.3 2.4 9 3.0 2.7 2.7 2.7 toes. 58.8 55.6 66.7 37.0	Per qt. \$0.089 .089 .088 .091 .112 .139 .155 .167 .146 .131 .138 .140  Sug  Per lb. \$0.055 .059 .066 .080	Qts. 11. 2 11. 4 11. 0 9. 0 7. 2 6. 5 6. 0 6. 8 7. 6 7. 2 7. 1 ar.  Lbs. 18. 2 16. 9 15. 2 12. 5	Per lb. \$0.056 .063 .070 .073 .092 .098 .100 .115 .099 .087 .087 .087 .	Lbs. 17. 9 15. 9 14. 3 13. 7 10. 9 10. 2 10. 0 8. 7 10. 1 11. 5 11. 5 11. 5 11. 5 12. 5 12. 5 13. 4 3. 4 3. 3 3 3 3 3 3	Per lb. \$0.033 .034 .042 .044 .070 .067 .072 .081 .047 .046 .047 .046 .546 .546 .546 .546 .546	Lbs. 30. 3 29. 4 23. 8 22. 7 14. 3 14. 9 13. 9 12. 3 21. 7 Lbs. 1. 8 1. 8 1. 8 1. 8	Per lb. \$0,030 .032 .033 .034 .058 .068 .064 .065 .045 .039 .041	Lbs. 33. 3 31. 3 30. 3 29. 4 17. 2 14. 7 15. 6 15. 4 22. 2 25. 6 24. 4	Per lb. \$0. 087 .088 .091 .104 .129 .151 .174 .095 .095	111111111111111111111111111111111111111
4	Per lb. \$0. 221 229 233 258 332 359 426 416 340 329 369 372  Potal  Per lb. \$0. 017 018 015 027 043	Lbs. 4.5 4.4 4.3 3.9 3.0 2.8 2.3 2.4 2.9 3.0 2.7 2.7 2.7 toes. 58.8 55.6 66.7 0 23.3	Per qt. \$0.089 .089 .088 .091 .112 .139 .155 .167 .146 .131 .138 .140  Sug  Per lb. \$0.055 .059 .066 .080 .093	Qts. 11. 2 11. 4 11. 0 9. 0 7. 2 6. 5 6. 0 6. 8 7. 6 7. 2 7. 1  ar.  Lbs. 18. 2 16. 9 15. 2 12. 5 10. 8	Per lb. \$0.056 .063 .070 .073 .092 .098 .100 .115 .099 .087 .087 .087 .087 .298 .297 .300 .299 .302	Lbs. 17.9 15.9 14.3 13.7 10.9 10.2 10.0 8.7 10.1 11.5 11.5 11.5 11.5 12.3 4 3.3 3.3 3.3 3.3 3.3	Per lb. \$0.033 .034 .042 .044 .070 .067 .072 .081 .058 .051 .047 .046  Te  Per lb. \$0.544 .546 .545 .546 .582	Lbs. 30. 3 29. 4 23. 8 22. 7 14. 3 14. 9 12. 3 21. 7 2 19. 6 21. 3 21. 7 Lbs. 1. 8 1. 8 1. 8 1. 8 1. 7	Per lb. \$0,030 .032 .033 .034 .058 .068 .064 .065 .045 .039 .041	Lbs. 33. 3 31. 3 30. 3 29. 4 17. 2 14. 7 15. 6 15. 4 22. 2 25. 6 24. 4	Per lb. \$0. 087 .088 .091 .104 .129 .151 .174 .095 .095	111111111111111111111111111111111111111
4	Per lb. \$0. 221	Lbs. 4.5 4.4 4.3 3.9 9.3.0 2.8 2.3 4.2.9 3.0 2.7 2.7 2.7 toes.	Per qt. \$0.089 .089 .088 .091 .112 .139 .155 .167 .146 .131 .138 .140 Sug	Qts. 11. 2 11. 4 11. 0 9. 0 7. 2 6. 5 6. 0 6. 8 7. 6 7. 2 7. 1 ar.  Lbs. 18. 2 16. 9 15. 2 12. 5 10. 8	Per lb. \$0.056 .063 .070 .073 .092 .098 .100 .115 .099 .087 .087 .087  Coff	Lbs. 17. 9 14. 3 13. 7 10. 9 10. 2 10. 0 111. 5 11. 5	Per lb. \$0. 033 . 034 . 042 . 044 . 070 . 067 . 072 . 081 . 058 . 051 . 047 . 046  Te  Per lb. \$0. 544 . 546 . 545 . 546 . 585 . 648	Lbs. 30.3 29.4 23.8 22.7 14.3 14.9 13.9 17.2 19.6 21.3 21.7  Lbs. 1.8 1.8 1.8 1.8 1.7 1.5	Per lb. \$0,030 .032 .033 .034 .058 .068 .064 .065 .045 .039 .041	Lbs. 33. 3 31. 3 30. 3 29. 4 17. 2 14. 7 15. 6 15. 4 22. 2 25. 6 24. 4	Per lb. \$0. 087 .088 .091 .104 .129 .151 .174 .095 .095	111111111111111111111111111111111111111
4	Per lb. \$0. 221	Lbs. 4.5 4.4 4.3 3.9 9 3.0 2.8 2.3 2.4 4.2 9 3.0 2.7 2.7 toes. Lbs. 58.8 55.6 7 37.0 23.3 31.3 26.3	Per qt. \$0.089 .089 .088 .091 .112 .139 .155 .167 .146 .131 .138 .140 Sug	Qts. 11. 2 11. 2 11. 4 11. 0 9. 0 7. 2 6. 5 6. 0 6. 8 7. 6 7. 2 7. 1  ar.  Lbs. 18. 2 16. 9 15. 2 12. 5 10. 8 10. 3 8. 8	Per lb. \$0.056 .063 .070 .073 .092 .098 .100 .115 .099 .087 .087 .087 .087 .087 .087 .083 .298 .299 .302 .299 .302 .305 .433	Lbs. 17. 9 15. 9 14. 3 13. 7 10. 9 10. 2 10. 0 8. 7 10. 1 11. 5 11	Per lb. \$0. 033 .034 .042 .044 .070 .067 .072 .081 .058 .051 .047 .046 Per lb. \$0. 544 .546 .545 .546 .582 .648 .701	Lbs. 30.3 29.4 23.8 22.7 14.3 14.9 13.9 12.3 17.2 19.6 21.3 21.7  Lbs. 1.8 1.8 1.8 1.7 1.5 1.4	Per lb. \$0,030 .032 .033 .034 .058 .068 .064 .065 .045 .039 .041	Lbs. 33. 3 31. 3 30. 3 29. 4 17. 2 14. 7 15. 6 15. 4 22. 2 25. 6 24. 4	Per lb. \$0. 087 .088 .091 .104 .129 .151 .174 .095 .095	111111111111111111111111111111111111111
4	Per lb. \$0. 221 - 229 - 233 - 258 - 332 - 359 - 426 - 416 - 340 - 329 - 369 - 372  Potat  Per lb. \$0. 017 - 018 - 015 - 027 - 043 - 032 - 038 - 063	Lbs. 4.5 4.4 4.3 3.9 9 3.0 2.8 2.3 2.4 9 3.0 2.7 2.7 2.7 toes. 58.8 55.6 666.7 37.0 23.3 31.3 26.3 31.5 9	Per qt. \$0.089 .089 .088 .091 .112 .139 .155 .167 .146 .131 .138 .140  Sug  Per lb. \$0.055 .059 .066 .080 .093 .097 .113 .194	Qts. 11. 2 11. 4 11. 0 9. 0 7. 2 6. 5 6. 0 6. 8 7. 6 7. 2 7. 1  ar.  Lbs. 18. 2 16. 9 15. 2 10. 8 10. 3 8. 8 5. 2	Per lb. \$0.056 .063 .070 .073 .092 .098 .100 .115 .099 .087 .087 .087 .087 .  Coff  Per lb. \$0.298 .297 .300 .299 .302 .305 .433 .470	Lbs. 17.9 14.3 13.7 10.9 10.2 10.0 8.7 10.1 11.5 11.5 11.5 11.5 12.5 12.5 13.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.	Per lb. \$0.033 .034 .042 .044 .070 .067 .072 .081 .047 .046  Te  Per lb. \$0.544 .546 .545 .546 .582 .648 .701 .733	Lbs. 30.3 29.4 23.8 22.7 14.3 14.9 13.9 12.3 21.7  Lbs. 1.8 1.8 1.8 1.7 1.5 1.4	Per lb. \$0,030 .032 .033 .034 .058 .068 .064 .065 .045 .039 .041	Lbs. 33. 3 31. 3 30. 3 29. 4 17. 2 14. 7 15. 6 15. 4 22. 2 25. 6 24. 4	Per lb. \$0. 087 .088 .091 .104 .129 .151 .174 .095 .095	
4	Per lb. \$0. 221 229 233 258 332 359 426 416 340 329 369 372  Potal  Per lb. \$0. 017 018 015 027 043 032 038 063 031	Lbs. 4.5 4.4 4.3 3.9 3.0 2.8 2.3 2.4 9.3 0.0 2.7 2.7 2.7 toes. 58.8 55.6 666.7 0 23.3 31.3 26.3 31.5 9 32.3	Per qt. \$0.089 .089 .088 .091 .112 .139 .155 .167 .146 .131 .138 .140  Sug  Per lb. \$0.055 .059 .066 .080 .093 .097 .113 .194 .080	Qts. 11. 2 11. 4 11. 0 9. 0 7. 2 6. 5 6. 8 7. 6 7. 2 7. 1  ar.  Lbs. 18. 2 16. 9 15. 2 12. 5 10. 8 10. 3 8. 88 5. 2 12. 5	Per lb. \$0.056 .063 .070 .073 .092 .098 .100 .115 .099 .087 .087 .087 .087 .298 .297 .300 .298 .305 .433 .470 .363	Lbs. 17. 9 14. 3 13. 7 10. 9 10. 2 10. 0 11. 5 11. 5 11. 5 11. 5 11. 5 12. 8	Per lb. \$0.033 .034 .042 .044 .070 .067 .072 .081 .047 .046  Te  Per lb. \$0.544 .546 .545 .546 .548 .701 .733 .697	Lbs. 30, 3 29, 4 23, 8 22, 7 14, 3 14, 9 13, 9 12, 3 21, 7 21, 6 21, 3 21, 7 21, 8 1, 8 1, 8 1, 8 1, 8 1, 8 1, 8 1, 8	Per lb. \$0,030 .032 .033 .034 .058 .068 .064 .065 .045 .039 .041	Lbs. 33. 3 31. 3 30. 3 29. 4 17. 2 14. 7 15. 6 15. 4 22. 2 25. 6 24. 4	Per lb. \$0. 087 .088 .091 .104 .129 .151 .174 .095 .095	
4	Per lb. \$0. 221 - 229 - 233 - 258 - 332 - 359 - 426 - 416 - 340 - 329 - 369 - 372  Potat  Per lb. \$0. 017 - 018 - 015 - 027 - 043 - 032 - 038 - 063	Lbs. 4.5 4.4 4.3 3.9 9 3.0 2.8 2.3 2.4 9 3.0 2.7 2.7 2.7 toes. 58.8 55.6 666.7 37.0 23.3 31.3 26.3 31.5 9	Per qt. \$0.089 .089 .088 .091 .112 .139 .155 .167 .146 .131 .138 .140  Sug  Per lb. \$0.055 .059 .066 .080 .093 .097 .113 .194	Qts. 11. 2 11. 4 11. 0 9. 0 7. 2 6. 5 6. 0 6. 8 7. 6 7. 2 7. 1  ar.  Lbs. 18. 2 16. 9 15. 2 12. 5 10. 8 10. 3 8. 8 5. 2	Per lb. \$0.056 .063 .070 .073 .092 .098 .100 .115 .099 .087 .087 .087 .087 .  Coff  Per lb. \$0.298 .297 .300 .299 .302 .305 .433 .470	Lbs. 17.9 14.3 13.7 10.9 10.2 10.0 8.7 10.1 11.5 11.5 11.5 11.5 12.5 12.5 13.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.	Per lb. \$0.033 .034 .042 .044 .070 .067 .072 .081 .047 .046  Te  Per lb. \$0.544 .546 .545 .546 .582 .648 .701 .733	Lbs. 30.3 29.4 23.8 22.7 14.3 14.9 13.9 12.3 21.7  Lbs. 1.8 1.8 1.8 1.7 1.5 1.4	Per lb. \$0,030 .032 .033 .034 .058 .068 .064 .065 .045 .039 .041	Lbs. 33. 3 31. 3 30. 3 29. 4 17. 2 14. 7 15. 6 15. 4 22. 2 25. 6 24. 4	Per lb. \$0. 087 .088 .091 .104 .129 .151 .174 .095 .095	

### Index Numbers of Retail Prices of Food in the United States.

IN TABLE 4 index numbers are given which show the changes in the retail prices of each of 22 food articles,4 by years from 1907 to 1923, and by months for 19235 and for January and February, These index numbers, or relative prices, are based on the year 1913 as 100, and are computed by dividing the average price of each commodity for each month and each year by the average price of that commodity for 1913. These figures must be used with caution. For example, the relative price of rib roast for the year 1920 was 168, which means that the average money price for the year 1920 was 68 per cent higher than the average money price for the year 1913. The relative price of bacon for the year 1919 was 205 and for the year 1920, 194, which figures show a drop of 11 points but a decrease of only 5 per cent in the year.

In the last column of Table 4 are given index numbers showing

the changes in the retail cost of all articles of food combined. From January, 1913, to December, 1920, 22 articles have been included in the index, and beginning with January, 1921, 43 articles have been used.4 For an explanation of the method used in making the link between the cost of the market basket of 22 articles, weighted according to the average family consumption in 1901, and the cost of the market basket based on 43 articles and weighted according to the consumption in 1918, see Monthly Labor Review for March,

1921 (p. 25).

EBRU.

chops.

for \$1.

Lbs.

4.9 4.4 3.1 2.6 2.4 2.9 3.0

3.3

Lbs.

2.8 2.8 2.5 2.1 1.7

11.5 11.4 11.0

11.0 9.6 7.8 6.6 5.7

10.5 10.5

The curve shown in the chart on page 73 pictures more readily to the eye the changes in the cost of the family market basket and the trend in the cost of the food budget than do the index numbers given in the table. The retail cost of the food articles included in the index has decreased since July, 1920, until the curve is brought down in February, 1924, to approximately where it was in July, 1917. The chart has been drawn on the logarithmic scale, because the percentages of increase or decrease are more accurately shown than on the arithmetic scale.

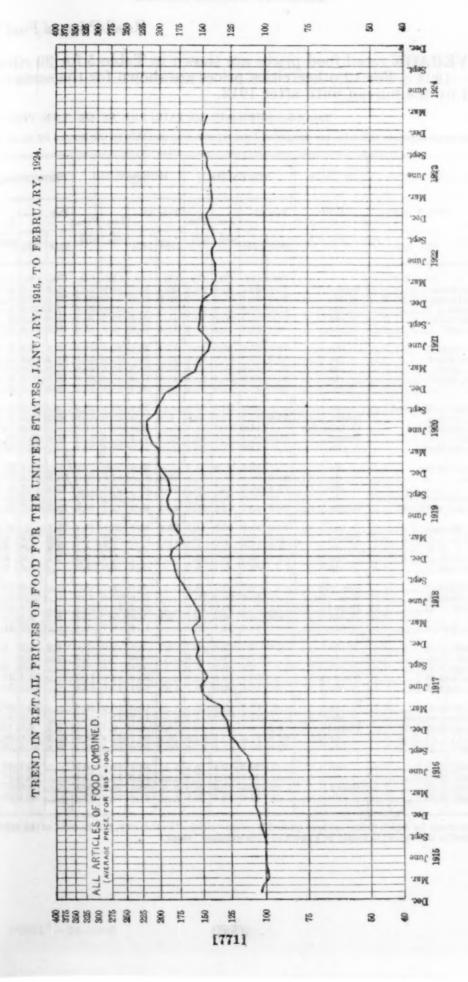
<sup>&</sup>lt;sup>4</sup> See note 2, p. 67.
<sup>5</sup> For index numbers of each month, January, 1913, to December, 1920, see Monthly Labor Review for February, 1921, pp. 19-21.
<sup>6</sup> For a discussion of the logarithmic chart see article on "Comparison of arithmetic and ratio charts," by Lucian W. Chaney, Monthly Labor Review for March, 1919, pp. 20-34. Also "The 'ratio' charts," by Prof. Irving Fisher, reprinted from Quarterly Publications of the American Statistical Association, June, 1917, 24 pp.

Table 4.—INDEX NUMBERS SHOWING CHANGES IN THE RETAIL PRICES OF THE PRINCIPAL ARTICLES OF FOOD IN THE UNITED STATES, BY YEARS, 1907 TO 1923, BY MONTHS FOR 1923 AND FOR JANUARY AND FEBRUARY, 1924.

18
B
1913
year 1
for
Verage
Z

All articles com- bined.	2488628862111111111111111111111111111111
Tea.	130 100 100 100 100 100 100 100 100 100
Cof-	00000000000000000000000000000000000000
Su- gar,	108 108 109 100 100 100 100 100 100 100 100 100
Pota-	1101 1101 1102 1103 1103 1103 1103 1103
Rice.	100 100 100 100 100 100 100 100 100 100
Corn meal.	988 942 942 944 100 100 100 100 100 100 100 100 100 1
Flour.	100 100 100 100 100 100 100 100 100 100
Bread.	1100 1175 1175 1175 1175 1175 1175 1175
Milk.	28.25.25.25.25.25.25.25.25.25.25.25.25.25.
Cheese.	201 202 202 203 203 203 203 203 203 203 203
But- ter.	28 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Eggs.	888 888 888 888 888 888 888 888 888 88
Hens.	28.88.92.25.25.25.25.25.25.25.25.25.25.25.25.25
Lard.	20000000000000000000000000000000000000
Ham.	25.22.23.25.25.25.25.25.25.25.25.25.25.25.25.25.
Ba- con.	47.7 8 8 8 8 8 8 8 9 8 8 8 9 8 8 9 8 8 9 8 9 8 9 8 9 8 9
Pork chops.	200 100 100 100 100 100 100 100 100 100
Plate beef.	100 110 110 110 110 110 110 110 110 110
Chuck Plate roast, beef.	128 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25
Rib roast.	25.000 1000 1000 1000 1000 1000 1000 1000
Round steak.	2000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Sirloin steak.	122 123 124 125 125 125 125 125 125 125 125 125 125
Year and month.	Av. for year. January March April. May June July August September October November January February August
Yea	1907 1909 1910 1910 1911 1914 1918 1918 1920 1921 1923 1923 1923 1923 1924:

[770]



Retail Prices of Food in 51

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A VERAGE retail food prices are shown in Table 5 for 39 cities for 1924. For 12 other cities prices are shown for the same dates, uled by the bureau until after 1913.

TABLE 5.-AVERAGE RETAIL PRICES OF THE PRINCIPAL

[The prices shown in this table are computed from reports sent monthly to the bureau by retail dealers.

		1	Atlant	a, Ga		Ва	ltime	ore, M	Id.	Bir	mingl	ham,	Ala,
Article.	Unit.	Feb	15—		Feb.	Feb.	15—	Jan.	Feb.	Feb.	15—	Jan.	Feb
		1913	1923	15, 1924.	15, 1924.	1913	1923	15, 1924.	15, 1924.	1913	1923	15, 1924.	15, 1924
Sirloin steak	Pounddodododododo	Cts. 22. 6 20. 5 17. 0 13. 0 9. 8	Cts. 32. 7 29. 5 25. 8 18. 8 11. 2	Cts. 35, 6 31, 2 26, 4 20, 0 11, 8	Cts. 34. 4 31. 2 25. 5 19. 7 11. 2	Cts. 20. 7 19. 0 17. 3 14. 7 11. 6	Cts. 35. 7. 32. 8 29. 1 19. 5 13. 0	Cts. 36. 9 33. 6 29. 6 20. 2 13. 2	Cts. 37. 1 33. 4 29. 5 20. 1 13. 3	Cts. 24, 9 20, 1 19, 3 15, 6 10, 0	Cts. 33. 6 29. 3 25. 8 20. 3 12. 4	Cts. 86. 6 32. 6 26. 5 21. 4 13. 6	Cts 36. 32. 25. 20. 13. 3
Pork chops	do do do	19. 5 30. 0 28. 5 20. 0 20. 0	27. 6 35. 8 45. 0 35. 9 31. 1	25, 9 34, 0 44, 1 34, 4 32, 9	25. 1 32. 9 43. 8 33. 3 31. 4	17. 3 21. 3 30. 0 18. 0 19. 8	28. 5 34. 5 50. 9 37. 9 38. 4	24. 8 33. 0 49. 6 37. 4 35. 6	24, 5 32, 3 48, 8 38, 0 37, 2	19. 4 31. 3 30. 0 18. 8 19. 3	28. 8 40. 7 45. 5 36. 3 31. 4	27. 0 38. 6 43. 8 38. 2 31. 2	26.5 38.5 44.6
Salmon, canned, red Milk, fresh Milk, ovaporated Butter Oleomargarine	Quart15-16 oz. can_ Pounddo	10. 9	29. 1 16. 7 14. 0 58. 1 32. 0	29. 5 19. 3 14. 1 58. 9 33. 1	29. 5 19. 3 14. 1 59. 3 33. 1								18.1 13.2 62.3
Nut margarine Cheese Lard Vegetable lard substitute Eggs, strictly fresh	do do do Dozen	25. 0 14. 8 28. 0	26. 3 36. 5 18. 0 20. 1 42. 7	28. 8 36. 1 18. 7 23. 2 52. 8	28. 4 35. 8 18. 1 22. 9 47. 3	23. 3 13. 5	26. 9 37. 5 16. 7	26.8	27. 0 36. 5 17. 7 23. 9		31. 1 37. 2 17. 5 19. 2	33. 2 37. 0 18. 3 20. 8	37. 1 17. 9 21. 0
Eggs, storageBreadFlourCorn mealRolled oats	Pounddodododododododo	25. 0 6. 0 3. 6 2. 4	35. 0 9. 1 5. 3 3. 3 9. 1	40. 8 9. 1 5. 3 3. 7 9. 1	41. 3 9. 1 5. 3 3. 7	23. 0 5. 4 3. 2 2. 4	36. 8 8. 4 4. 5 3. 1 8. 4	8. 8 4. 2 3. 4	8.8 4.2 3.5	25. 0 5. 0 3. 8 2. 1	8. 9 5. 8 3. 0 9. 6	5.4	8.1 5.
Corn flakes Wheat cereal Macaroni Rice Beans, navy	8-oz. pkg 28-oz. pkg Pound do	8. 6	9. 7 25. 9 21. 1 8. 7 13. 0	9. 7 26. 2 20. 9 8. 9 12. 1	9. 8 26. 9 21. 0 8. 8 12. 3	9, 0	8. 9 23. 6 19. 2 9. 0 11. 0	22. 5 18. 5 9. 7	22. 8 19. 1	8. 2	9. 9 27. 0 19. 4 9. 1 11. 7	26.1 18.9 9.6	26.0 19.1 9.0
Potatoes Onions Cabbage Beans, baked Corn, canned	dodododododod	2. 0	3. 1 7. 0 6. 8 13. 5 16. 0	3. 6 8. 1 6. 2 12. 5 16. 0	3. 7 8. 0 6. 9 12. 6 15. 7	1. 7	6. 0 6. 0 12. 3 15. 1		6.3	1. 9	3. 2 5. 9 5. 8 14. 4 16. 2	4. 0 7. 1 6. 4 13. 8 16. 5	7. 1 6. 4 13. (
Peas, canned	do Pound dodo	6. 0 60. 0 32. 0	17. 7 13. 2 9. 1 91. 3 36. 9	18, 3 13, 5 10, 8 92, 8 37, 5	18. 5 13. 5 10. 9 92. 8 37. 6	5. 0 56. 0 25. 2	16. 3 11. 9 8. 0 66. 7 33. 0	16. 2 11. 7 9. 7 67. 4	9. 9	5. 3 61. 3	11. 6 8. 8 82. 0	12. 3 10. 6 85. 2	12.3 10.6 85.4
Prunes Raisins Bananas Oranges	do		20. 3	19. 1	18. 9 17. 3		18.1	13. 9	16. 2 13. 9 28. 6 37. 1		20. 7 20. 1 33. 6 39. 1	17.8 37.5	17. 36.

<sup>&</sup>lt;sup>1</sup> The steak for which prices are here quoted is called "sirloin" in this city, but in most of the other cities included in this report it would be known as "porterhouse" steak.

Cities on Specified Dates.

in 51

es for

lates,

CIPAL

dealers.

, Ala.

Feb. 15, 1924

c. Cts. 6 36.3 3 5 25.6 4 20.9 6 13.3 0 26.5 6 38.2 37.0 2 31.7 2 30.0 1 18.5 2 13.2 7 62.3 3 34.5

33 3 37. 7 17. 9 21. 0 48. 4

40.0 8.8 5.5 3.4 9.2

10.1 26.0 19.1 9.6 11.3

4.0 7.1 6.4 13.6 16.2

20.8 12.3 10.6 85.4 38.3

19.6 17.4 36.7 35.8 February 15, 1913 and 1923, and for January 15 and February 15, with the exception of February, 1913, as these cities were not sched-

ARTICLES OF FOOD IN 31 CITIES ON SPECIFIED DATES.

As some dealers occasionally fail to report, the number of quotations varies from month to month.]

J	Boston	, Mass		Br	idgep Conn	ort,	В	uffalo	, N. 3	ζ,	Bu	tte, Me	ont.	Ch	arlest	on, S	. C.
Feb.	15-	Jan.	Feb.	Feb. 15.	Jan.	Feb.	Feb.	15—	Jan.	Feb.	Feb.	Jan.	Feb.	Feb.	15-	Jan.	Feb.
1913	1923	15, 1924.	15, 1924.		15, 1924.	15, 1924.	1913	1923	15, 1924.	15, 1924.	15, 1923.	15, 1924.	15, 1924.	1913	1923	15, 1924.	15, 1924.
Cis. 34. 5 32. 4 23. 4 17. 0	Cts. 1 59. 4 45. 8 35. 7 23. 0 14. 8	51. 3 38. 1 24. 9	Cts.  1 62. 5 50. 9 37. 8 24. 0 15. 3	33. 0 23. 3	39. 5 35. 7 26. 3	38, 3 34, 8	18. 3 17. 0 14. 7	29. 9	36. 9 31. 0 28. 1	31. 2 28. 3 20. 7	16. 0	Cts. 28. 2 24. 0 22. 3 15. 9 11. 0	Cts. 27. 8 24. 0 22. 4 16. 2 10. 8	20. 0 19. 3	30. 9 27. 3	27. 3 20. 5	30. 9 27. 3 20. 0
20. 6 24. 6 28. 3 21. 8 22. 8	31. 7 37. 6 50. 6 37. 8 39. 6	49. 6 37. 4	29. 0 36. 5 49. 2 37. 2 39. 3	45. 0 53. 8 38. 1	49. 5	49. 1 35. 0	20. 3 24. 0 17. 5	33. 2 45. 6	44. 9 30. 0	30. 1 44. 9 30. 0	45. 9 50. 0	47. 7 51. 4	24. 8 45. 5 50. 5 31. 6 30. 3	23. 0 26. 7 21. 3	29. 1 37. 4 41. 9 40. 6 36. 0	42. 3 39. 5	42.
8. 9 38. 9	29. 2 14. 5 12. 6 59. 8 31. 0	29. 8 14. 9 12. 8 60. 8 31. 1	61. 7			15, 0 12, 5 60, 7	41. 2	11.9	12. 8 11. 8 62. 1	27. 8 12. 5 11. 7 61. 4 30. 2	36. 8 14. 2 12. 3 55. 7 30. 5	38. 5 14. 3 12. 3 56. 2	12.3	11.7	27. 1 18. 0 12. 0 56. 1 28. 2	12. 0 58, 6	18. 12. 59.
22. 9 15. 3	26. 0 38. 4 18. 2 24. 1 60. 0	24. 3	27. 9 40. 5 18. 7 23. 1 67. 7	27. 8 37. 8 17. 3 22. 3 58. 7	39. 5 18. 4	39. 7 18. 0	21. 5 13. 9	16. 6	37. 4 17. 9		31. 2 37. 9 20. 9 26. 7 60. 9	33. 7 39. 6 21. 7 27. 1 66. 9	33. 7 40. 0 21. 2 27. 1 52. 2		28. 0 36. 6 18. 8 20. 7 43. 4	34. 9 20. 3 23. 5	35. 19. 23.
25. 2 5. 9 3. 7 3. 5	42. 7 8. 4 5. 4 4. 5 8. 6	42.2 8.4 5.0 5.1 8.8	41. 7 8. 4 5. 0 5. 1 9. 0	42. 4 8. 4 4. 9 6. 4 8. 3	7. 1	4. 6 7. 0	5.6	8.3 4.3	35. 8 8. 4 4. 0 4. 2 7. 9	38. 1 8. 4 4. 3 4. 4 7. 9	33. 1 9. 7 5. 3 3. 8 6. 7	37. 8 9. 7 5. 0 4. 1 6. 8	35. 0 9. 6 5. 0 4. 1 6. 8	6. 2 3. 7 2. 3	37. 0 9. 5 6. 0 3. 0 9. 5	10.8 5.7	10. 5. 3.
9. 2	9, 8 25, 2 23, 6 10, 6 10, 5	9. 6 23. 7 23. 0 11. 3 10. 3	9. 6 23. 8 23. 0 10. 9 10. 3	10. 4	10. 1	23. 5 23. 2 10. 1	9. 3	9, 2 25, 2 21, 8 9, 1 11, 2	21. 7 9. 2	21. 2	9. 6	12. 1 28. 3 20. 6 10. 3 10. 8	12. 1 28. 3 20. 6 10. 3 10. 8	5. 5	10. 0 25. 0 20. 5 6. 3 12. 0	24. 7 19. 6 6. 9	24. 19. 7.
1.7	2. 4 6. 5 6. 8 14. 2 19. 0	2. 7 6. 4 5. 2 14. 3 18. 6	2. 8 6. 4 5. 7 14. 2 18. 6	2.3 5.7 4.6 12.2 18.9	2.9 6.8 5.3 12.8 19.1	2.9 7.0 5.8 12.5 19.1	1.4	1. 7 5. 2 3. 6 11. 1 14. 6	10. 9	2. 3 7. 0 4. 0 10. 8 15. 7	1. 2 4. 1 3. 8 17. 7 15. 7	1. 8 5. 0 3. 8 16. 7 15. 0	1. 8 5. 1 5. 3 16. 7 15. 2	2. 0	2.6 5.5 3.8 11.5 14.6	3. 1 6. 5 4. 4 10. 9 14. 3	10.5
5. 4 58. 6 33. 0	21. 4 12. 8 8. 7 69. 0 42. 8	21. 2 12. 1 10. 3 70. 4 43. 2	21. 1 12. 1 10. 4 69. 9 45. 5		13. 5 10. 7 57. 8	13. 6 9. 9 57. 1		13. 2 8. 6 61. 2	62. 3	16. 9 14. 1 10. 3 62. 6 34. 4	16. 5 15. 1 10. 3 80. 0 45. 0	16. 1 14. 4 12. 3 82. 5 46. 9	16. 2 13. 6 12. 3 83. 3 47. 2	5. 0 50. 0	18. 0 10. 8 7. 9 70. 7 32. 7		10. 6 10. 6 71. 6
	20, 6 18, 0 53, 3 53, 3	17. 8 15. 1 48. 6 42. 0	14. 9 49. 5	18. 1	15. 4 38. 0	15. 1 38. 0		17. 5 46. 5		49.3	20. 4 21. 2 2 15. 5 40. 8	18. 8 19. 3 2 16. 9 43. 3			19. 8 18. 6 36. 9 33. 3	15. 4 40. 7	15. 2 38. 8

Per pound.

90871°-24---

TABLE 5:-AVERAGE RETAIL PRICES OF THE PRINCIPAL ARTI

Abdustion of the	all Elization		Chica	go, Ill		Ci	neinna	ati, O	hio.	CI	evela	nd, O	hio.
Article.	Unit.	Feb.	15—	Jan.	Feb.	Feb.	15—	Jan. 15,	Feb.	Feb	. 15—	Jan.	Fet
Proposer sentines		1913	1923	15, 1924.	1924.	1913	1923	1924.	15, 1924.	1913	1923	15, 1924.	15, 1924,
Sirloin steak Round steak Rib roast Chuck roast Plate beef	do	18. 1 13. 9	99 0	31. 1 31. 2 20. 2	31. 1 31. 3 20. 8	19. 1 18. 6	33. 2 29. 9 27. 5	33. 8 29. 9 27. 6 17. 8	30. 3 27. 8	Cts. 22. 3 18. 8 18. 0 14. 7 10. 6	28. 0 25. 3	35, 9 29, 3 25, 8	29, 1 25.
Pork chops	do	29. 0 29. 5 19. 1	44. 3 46. 6 34. 2	41. 2 46. 6 34. 8	41. 5 46. 8 35. 6	24. 0 26. 0 16. 6	33. 5 45. 4 34. 2	30. 0 45. 7 33. 2	29. 2 45. 1 33. 1	18. 3 24. 3 32. 0 18. 7 20. 6	39.9 46.0 33.6	38. 9 49. 4	37.
Salmon, canned, red Milk, fresh Milk, evaporated Butter Oleomargarine	Quart 15-16 oz. can Pound do	8. 0 39. 9	11.4	14. 0 11. 5 61. 4	14. 0 11. 5 58. 4	8. 0	12. 0 11. 6	11. 5 63. 4	14. 0 11. 5 60. 5	8.8	11. 7 60. 2	14.0	14.6 11.3 61.5
Nut margarine	dodododo	25. 0 14. 7	24. 5 40. 4 16. 4 23. 0 45. 8	39. 9 18. 8	40. 1 18. 2 25. 0	\$15-00E	15. 4 23. 3	36. 9 17. 1 24. 3	36. 7 16. 1 24. 9	23. 0 15. 8	23 7	37. 2 20. 0	37.3 19.3
Eggs, strictly fresh Eggs, storage Bread Flour Corn meal Rolled oats	Pounddododo.	22.6 6.1 2.8 2.9	35. 2 9. 7 4. 2 5. 4 8. 2	37. 9 9. 7 4. 0 5. 2 8. 8	9. 7 4. 1 5. 1	19. 0 4. 8 3. 4 2. 5		35. 2 8. 4 4. 4 3. 7 8. 4	8. 4 4. 4 3. 6	5. 5 3. 2	4.7	7.9 4.5 4.2	4.
Corn flakes Wheat cereal Macaroni Rice Beans, navy	8-oz. pkg 28-oz. pkg Pound do	9. 0	9. 6 24. 2 18. 0 10. 1 11. 4	9. 3 23. 5 18. 4 10. 3 10. 2	9. 3 23. 4 18. 4 10. 3 10. 1	8. 8	9. 4 23. 3 15. 9 8. 9 10. 8	9. 2 22. 9 16. 4 9. 8 8. 3	23. 0 16. 4	8. 5	24. 4 18. 9 9. 0	24.6 19.6 9.9	24. 19. 9.
Potatoes Onions Cabbage Beans, baked Corn, canned	do do No. 2 can	1. 2	1.9 5.0 5.6 13.0 14.4	2.6 5.8 4.7 12.8 15.4	2.7 6.0 6.3 12.6	1. 4	5, 1 4, 4 11, 6		4. 8 12. 0	1.4	4. 3 12. 7	5.9 4.8 12.7	5.9 5.1 13.0
Peas, canned	do do Pounddodo	5. 0 53. 3 30. 0	15. 8 13. 6 8. 2 70. 0 37. 6	17. 4 14. 1 9. 6 73. 5 37. 8	9.9 73.4	5. 2 60. 0 25. 6	£959, £51	73, 31	74. 5	5. 5 50. 0 26. 5	889. TI	67.9	67
Prunes Raisins Bananas Oranges	do Dozen		20. 1 19. 2	18.3 16.9 40.9	18. 9 16. 6 42. 8 40. 1		19. 9 18. 3 38. 1	18. 6 16. 0 45. 8	18.6		19.3	17. 6 15. 6 49. 4	17. 15. 52.

<sup>&</sup>lt;sup>1</sup> The steak for which prices are here quoted is called "rump" in this city, but in most of the other cities included in this report it would be known as "porterhouse" steak.

CLES OF FOOD IN 51 CITIES ON SPECIFIED DATES-Continued.

	lumb Ohio.		1	Dallas	, Tex		D	enve	r, Col	θ.	D	etroit	, Mie	h.	Fa	ll Riv	er, Ma	ass.
Feb.	Jan.	Feb.	Feb.	15—	Jan.	Feb.	Feb.	15-	Jan.	Feb.	Feb.	15—	Jan. 15,	Feb. 15,	Feb.	15-	Jan.	Feb
15, 1923.	15, 1924.	15, 1924.	1913	1923	15, 1924.	15, 1924.	1913	1923	15, 1924.	15, 1924.	1913	1923	1924.	1924.	1913	1923	15, 1924.	15, 1924
Cts. 33. 7 29. 2 25. 6 19. 4 12. 8	28. 0 21. 8	31. 7 28. 5 22. 2	18. 3 17. 6 15. 4	33. 7 30. 8 26. 5 20. 5	34. 2 30. 2 26. 8 21. 0	29. 8 26. 3 21. 3	22. 5 18. 4 15. 9 14. 5	23. 5 21. 1 16. 2	29. 4 25. 0 22. 1 16. 8	29. 2 25. 0 21. 5 16. 8	18. 2 18. 2 14. 5	35. 7 27. 5	29. 7 27. 8 19. 9	29. 7 27. 1 19. 8	131.0 24.0 22.6 17.0	Cts. 155. 8 41. 8 27. 2 20. 1 11. 5		42. 27. 20.
26. 3 38. 3 45. 3 34. 7 33. 0	38. 5 45. 8	37. 5 45. 3 39. 6	36. 0 28. 8	39. 7 50. 0 44. 2	38. 5 49. 6	39. 2 49. 6 38. 3	26. 3 27. 0 15. 5	42. 5 48. 8	41. 0 48. 0 34. 4		22. 4 24. 0 16. 7	48. 6	37. 5 48. 4 35. 6	36. 0 47. 3	28. 7 19. 0	38. 1, 46. 8 38. 1	25. 6 34. 4 45. 7 38. 8 39. 2	34. 45. 38.
31. 6 12. 0 12. 1 57. 1 27. 6	13. 0 11. 8 63. 0	11.8	10. 0 39. 0	15. 0 13. 5 56. 5	14.0	15. 0 14. 0 60. 9		11. 8 11. 7 53. 1		11. 7 12. 1 56. 4		14. 0 11. 6 58. 3	11.6	14. 0 11. 7 60. 3	9. 0 38. 4	13. 6	31. 3 15. 0 13, 5 58. 7 31. 5	14. 13. 59.
26. 1 36. 9 15. 2 22. 4 41. 5	16. 7 24. 5	37. 1 15. 9 25. 4	20. 0 16. 0	29. 4 36. 9 20. 6 20. 6 41. 2	36. 9 22. 8 21. 9	37. 5 22. 4 21. 6	26. 1 16. 3	38. 9 19. 3 21. 9	19.3	38. 4	15. 9	17. 1	37. 1 19. 0	37. 0 18. 1 24. 9	23.6 14.8	16. 7 23. 0	30, 7 38, 9 18, 5 25, 4 74, 3	17. 25.
35. 0 7. 7 4. 6 3. 0 9. 0	7. 7 4. L	7.7 4.2 3.7	2.6		8. 7 4. 5 4. 6 10. 5	8. 7 4. 5 4. 6 10. 8	5. 3 2. 7 2. 5	32. 5 8. 2 3. 9 3. 2 8. 8	7. 7 3. 6 3. 3	7.7 3.6 3.3	5. 6 3. 2 2. 7	8.6	38. 3 8. 8 4. 1 4. 8 8. 9	8.8 4.2 4.8	6.2	5. 0	41. 9 8. 9 4. 9 7. 3 9. 6	8. 4. 7.
10. 1 24. 4 18. 6 10. 0 11. 0	18. 8 10. 7	24. 6 18. 8 10. 3	9. 3	10.8 25.9 21.2 9.9 11.6	25. 3 21. 0	20. 9 11. 2	8. 6	24. 7 20. 8	24. 8 20. 0 9. 7	9.9	8. 4	9. 1 24. 0 19. 1 9. 6 10. 9	9. 0 24. 1 19. 1 9. 6 8. 3		10. 0		10. 0 26. 1 23. 6 10. 5 10. 4	25. 23. 10.
1. 9 5. 9 5. 1 13. 2 12. 5	2. 5 7. 3 4. 7 13. 7 12. 8	6. 8 5. 5	2.0	3.3 7.2 5.4 14.8 17.0	4.1 7.6 5.9 14.9 17.2	4.0 7.5 5.9 14.8 17.2	1. 1	1. 5 3. 8 3. 3 .14. 4 14. 4	5. 1	3.3	1. 3	1.3 4.9 4.6 12.3 15.2				2. 3 5. 8 6. 6 13. 4 16. 3	2.8 6.7 5.4 12.8 16.4	2.6.7.12.16.
14. 5 13. 1 8. 8 76. 7 36. 6	13.6 10.3 78.6	15. 9 13. 5 10. 3 79. 4 39. 0	5. 9 66. 7 36. 7	21. 1 13. 9 9. 5 92. 7 42. 7	11. 2 97. 6	21. 8 14. 2 11. 4 97. 6 44. 5	5. 4 52. 8 29. 4	13. 1 9. 3 68. 3	10. 7 67. 3	13. 8 10. 9	5. 1 43. 3 29. 3	13. 0 8. 6 66. 5		12.9 10.1 64.3	5. 3		18. 0 13. 5 10. 5 59. 0 40. 4	13. 10. 61.
18. 5	16. 2	19.7 16.4 40.0		19.8 34.2		17. 5 33. 6		19. 7 13.8	16.1 214.9	18. 8 15. 4 214.6 35. 5		17. 5 34. 4	36. 4	17. 8 15. 7 36. 0 46. 0		18. 4 19. 3 10.7 50. 9	16. 5 16. 7 11. 7 35. 3	16. 16. 111. 40.

Per pound.

L ARTI

Ohie.

In. Feb. 15, 1924.

(s. 1924.

(s. 9 35, 5 3 29, 3 3, 5 29, 3 3, 5 3 29, 3 3, 5 3 29, 3 3, 5 3 29, 3 3, 6 5 3 11, 3 4, 6 5 3 11, 5 5 11, 3 4, 6 5 3 1, 6 7, 19 1,

r cities

### MONTHLY LABOR REVIEW.

# TABLE 5.-AVERAGE RETAIL PRICES OF THE PRINCIPAL ARTI

MATA APPUT IDEE   SOIL	V 110	Hou	ston,	Tex.	Ind	ianap	olis, I	nd.	Jac	ksony	ville,	Fla.
Article.	Unit.		Jan. 15,	Feb.	Feb.	15—	Jan.	Feb.	Feb.	15—	Jan.	Feb
tion term part to the fact of		15, 1923.		15, 1924.	1913	1923	15, 1924.	15, 1924.	1913	1923	15, 1924.	15, 192
Sirloin steak Round steak Rib roast Chuck roast Plate beef	do	Cts. 30. 0 29. 2 24. 2 19. 9 15. 9	29. 3 27. 9 23. 5 19. 6	22. 4 18. 5	Cts. 23. 5 20. 8 16. 5 14. 6 11. 2	34. 4	34. 9	35. 5	Cts. 25, 8 20, 3 22, 5 14, 3 10, 3	27. 3 25. 7 17. 5	Cts. 34.8 29.2 27.6 19.0 11.5	29. 27.
Perk chops Bacon, sliced Ham, sliced Lamb, leg of Hens	do do do	34. 5	43. 5 45. 4 33. 3	44. 3 32. 5	28. 0 29. 5 17. 7	37. 1 48. 8 40. 0	46. 6 37. 5	32. 9 46. 4 37. 9	25. 6 26. 3	44.1	33.9 44.5	32. 44.
Salmon, canned, red	do Quart 15-16 oz.can_ Pounddo	31. 0 15. 8 12. 9 53. 9 32. 5	15. 8 12. 9 60. 0	15. 8 13. 0 58. 6	8. 0	12. 0 11. 6 55. 5	35. 4 12. 0 11. 6 61. 9 30. 6	12. 0 11. 6	12. 5 43. 8	17. 7 12. 6	30. 8 20. 0 13. 0 60. 9 30. 3	20. 13. 61.
Nut margarine Cheese Lard Vegetable lard substitute Eggs, strictly fresh	do do do Dozen	29. 0 36. 8 18. 9 18. 6 36. 5	35. 1	34. 5	21. 0 15. 0 29. 0	38. 5 14. 7	29. 3 36. 8 16. 3 25. 4 51. 5	36. 3	22. 5 15. 3 32. 5	21. 0	23. 1	24
Eggs, storage Bread Flour Corn meal Rolled oats	do Pound do do	33. 3 7. 2 5. 1 3. 6 8. 9	7.0 4.7 4.3	7. 0 4. 7 4. 2	24. 0 5. 1 3. 2 2. 6	8.4	40. 7 8. 5 4. 4 3. 6 7. 3	4. 4	6, 5 3, 7 2, 8	10. 2 5. 7 3. 2 9. 8	5.4	10. 5. 3.
Corn flakes Wheat ceréal Macaroni Rice Beans, navy	do	10. 3	20. 0 8. 0	19. 2	9. 2	24. 9 18. 5	9. 0 24. 4 18. 9 10. 6 8. 9		6, 6	9. 9 23. 8 19. 6 9. 0 11. 3		9. 24. 19. 8. 11.
Potatoes Onions Cabbage Beans, baked Corn, canned	No. 2 can do	5. 8 4. 1 13. 6 13. 9	5. 5 13. 3 15. 3	3. 9 6. 1 5. 4 13. 0 15. 2	1. 3	1. 4 4. 9 4. 2 13. 5 13. 4	2. 4 5. 9 4. 6 13. 1 13. 6	2. 3 5. 8 4. 7 13. 2 13. 9	2, 2	2.9 6.5 4.9 11.7 16.1	3. 7 7. 2 5. 6 12. 1 16. 3	3. 7. 5. 12. 16.
Peas, canned Tomatoes, canned Sugar, granulated Tea Coffee	dodo	19. 0 11. 9 8. 9 69. 8 34. 4	18. 0 12. 2 10. 0 74. 5 34. 5	18. 1 12. 0 10. 0 74. 5		15 0	1	10 0		16. 0 11. 6 8. 4 84. 4	17. 2 11. 3 10. 7 89. 5	18. 11. 10. 89.
Prunes Raisins	dodoDozendo	20. 1 19. 1 28. 6 45. 2	18. 4 16. 2 31. 5 38. 8	28. 5		21. 1 19. 6 30. 3	19. 5 17. 4 32. 9 37. 6	20. 1 17. 4		21. 1 20. 3 26. 3 30. 9	35. 0	17. 31.

<sup>&</sup>lt;sup>1</sup> The steak for which prices are here quoted is called "sirloin" in this city, but in most of the other cities included in this report it would be known as "porterhouse" steak.

CLES OF FOOD IN 51 CITIES ON SPECIFIED DATES-Continued.

ARTI

Fla.

Feb. 15, 1924.

Cts. 34.8 29.6 27.2 28.4 27.8 28.4 34.5 34.5 34.5 34.5 32.0 661.4 31.0 28.6 61.4 31.0 28.6 61.4 31.0 35.7 7.8 8.9 11.3 3.7 7.8 9.6 8.9 11.3 3.7 7.8 8.9 11.3 3.7 8.9 11.3 8.9 1

Ka	nsas	City,	Mo.	Lit	tle R	ock,	Ark.	Los	Ang	eles, (	Calif.	L	ouisv	ille, E	Хy.	Mar	chest	er, N	. н.
Feb	. 15-		Feb.	Feb	. 15—	Jan.	Feb.	Feb	. 15—	Jan.	Feb.	Feb.	15—	Jan.	Feb.	Feb.	15—		Feb
913	1923	15, 1924.	1924.	1913	1923	15, 1924.	1924.	1913	1923	15, 1924.	15, 19 <b>24</b> .	1913	1923	15, 1924.	15, 1924.	1913	1923	15, 1924.	15, 192 <b>4</b>
Cts. 11. 9 00. 0 6. 7 3. 8 0. 5	34. 7 28. 8 23. 7 17. 2	38. 0 31. 5 25. 2 18. 9	37. 5 30. 7 25. 6 18. 4	19. 4 18. 4 15. 0	32. 0 29. 4 26. 4 18. 8	33. 2 29. 2 25. 9 18. 6	29. 0 26. 3 18. 8	22. 8 20. 4 18. 6 16. 0	32. 4 26. 9 28. 2 18. 0	34, 2 28, 3 27, 8 19, 0	34. 6 28. 7 28. 1 19. 3	20. 1 18. 0 17. 1 13. 3	27. 0 23. 7 17. 4	31. 5 27. 5 23. 4	27. 5 23. 7 17. 5	134. 0 27. 6 18. 4 15. 8	151.8 42.1	44. 6 27. 9 22. 0	1 54. 44. 27. 21.
7.3 8.4 7.5 6.3 6.1	45. 0	39. 5 45. 4 34. 0	39. 5 44. 8 34. 0	34. 0 28. 8	36. 1	45. 0 36. 3	38. 5 45. 3 35. 0	33. 8 35. 0 19. 2	48. 7 58. 7 33. 0	35. 3 48. 3 57. 7 33. 8 40. 5	47. 1 58. 2 34. 2	26. 6 26. 1 17. 6	41. 3 34. 3	31. 2 40. 8 36. 0	29. 6 40. 3 35. 8		40. 2 36. 4	31. 3 38. 7	31. 37. 35.
8. 7	13. 3 12. 6 58. 4	12.1	13. 3 12. 1 60. 5	10. 0	31. 4 15. 7 13. 1 55. 7 30. 6	15. 7 13. 0 60. 3	13. 0 60. 4	10. 0	15. 0 10. 8 57. 1	10. 8 60. 6	15. 0 10. 5	8. 8 43. 2	12. 0 55. 7		13. 0 12. 3 61. 7	8. 0 41. 8	13. 6	14. 0 13. 8 62. 6	13. 13. 62.
1. 5 6. 1 5. 4	38. 1 17. 5 21. 8	18. 5 25. 5	37. 2 17. 6 25. 6	21. 7 15. 0	28, 8 39, 2 19, 5 20, 1 40, 7	38. 1 19. 9 20. 8	37. 6 19. 2 20. 8	19. 5 17. 9	38. 5 19. 3 22. 7	30. 1 40. 8 21. 0 23. 9 48. 3	40. 8 20. 1 24. 9	15. 2	14. 4 23. 1	16. 3 24. 8	34. 3 15. 6 26. 0	21. 3 16. 0	17. 4 20. 6	38. 0 18. 5 23. 3	38 17 23
7. 0 5. 9 3. 0 2. 6	35. 0 8. 2 4. 6 4. 4 8. 4	4.3	8.3 4.3 4.5	6. 0 3. 6 2. 4	5. 3	41. 3 8. 1 5. 1 3. 5 9. 4	8. 1 5. 0 3. 5	6. 2 3. 6 3. 4	4.8	36. 9 9. 0 4. 5 4. 5 9. 7	9.3 4.5 4.3	20. 1 5. 7 3. 6 2. 2	8. 4 5. 5	4. 9 3. 1	8. 4 4. 9 3. 1	5. 9 3. 4 3. 6	8. 4 5. 2	8.4 4.8	8 4
3.7	9. 9 25. 6 20. 6 9. 5 11. 6	25, 2 21, 6 9, 2	25. 2 21. 3 9, 1	8. 3	9, 8 25, 6 21, 5 8, 2 12, 3	20. 3 8. 1	24. 7 20. 5 8. 2	7.7	9. 6 23. 4 15. 6 9. 6 9. 6	23. 5 15. 8 9. 9	23. 3 15. 3 10. 2	8. 1	9. 3 23. 9 16. 4 8. 2 10. 5	23. 8 16. 8 8. 9	23, 8 16, 7 8, 7	8. 5	9. 7 25. 3 24. 9 8. 9 11. 1	23. 2 9. 3	24 24 9
1. 4		5, 8	7. 0 5. 4 14. 0		2. 4 5. 9 5. 9 13. 6 15. 7	3. 2 7. 9 6. 3 12. 8 15. 6	6. 5 12. 8		2, 2 5, 8 3, 8 13, 1 16, 4	3. 6. 5. 8 6. 4 13. 0 15. 7	5. 6 6. 4	1. 5	5. 4	6. 2 5. 6 11. 5	6. 0 6. 4 11. 6	1.4	2. 1 5. 2 4. 3 14. 9 17. 5	4. 2 14. 3	6. 4. 14.
5.6	13. 3 9. 4 80. 0	14. 1 10. 4 79. 4	10. 6	5. 5 50. 0		13. 2 10. 9 83. 8	13. 0 11. 2 86. 3	5. 4 54. 5	9. 3 69. 5	17. 7 214.7 10. 0 68. 6 43. 1	<sup>2</sup> 14.7 10.4 69.1	5. 2 60. 0	11. 2 8. 6 71. 0	10. 5 73. 3	12.1 10.4 72.8	5. 4 45. 0 32. 0	9. 0 56. 4	10. 5 58. 3	3 20 10 58
	20, 8 13.0	17, 1 4 13.1	17. 3 17. 0 14.0 44. 1		20.7 4 10.1	18. 2 18. 6 4 11.3 38. 5	18.9 411.4		17. 9 4 11.3	18. 3 15. 9 4 13.3 36. 8	14. 5 12.2		18. 5 38. 6	17. 9 15. 0 38. 3 33. 3	14. 9 38. 3		18. 4 4 10.4		15.

<sup>1</sup> No. 21 can

No. 3 can.

Per pound.

TABLE 5.—AVERAGE RETAIL PRICES OF THE PRINCIPAL ARTI

VIIV Superiorali 1.4		Me	emph	is, Te	nn.	Mi	lwani	ree, W	Vis.	Min	neapo	lis, A	1 in
Article.	Unit.	Feb.	15—	Jan.	Feb.	Feb.	15—	Jan. 15,	Feb.	Feb.	15—	Jan.	
S less can you have	ADD (20) AR	1913	1923		1924.			1924.	1924.	1913	1923	15, 1924,	19:
	100 100 10	Cta.	Cts.	Cts.	Cts.	Cts.	Cts.	Ots.	Cts.	Cts.	Cts.	Cts	0
Sirloon steak	Pound	20. 0	30 1	93 9	32 9	20.5	35 5	27 5	37. 1	20.0	30 9	90 7	t ou
Round Steet	40	1115 18	206 3	20 K	100 K	18 5	301.01	32 5	32 2	18 0	94 0	95 0	il con
Rib roast	do	18. 2	22.6	24.0	23, 8	17. 3	26.4	27.3	27.3	17. 7	24. 0	93 9	9
Chuck roast Plate beef	do	13. 9	17.0	17.9	17.7	15.0	21.3	22.5	22.4	14. 5	18. 4	18.6	1
												fi .	1 -
Pork chops Bacon, sliced Ham, sliced Lamb, leg of	do	18. 6	22. 5	23. 6	22. 1	15.3	26.8	25. 1	24.4	16.8	26. 9	26. 1	2
Hacon, sliced	do	29, 1	37. 3	35.4	34. 3	26. 3	40.6	38. 4	38. 2	25. 0	42. 5	38. 1	3
Ham, sliced	do	26.4	44.6	43. 8	44. 6	26. 8	44.0	43. 5	43. 3	27. 5	45. 6	42.5	4
Lamb, leg of		20.4	35. 3	34.1	34. 5	19. 5	36. 1	35. 8	35. 7	15. 0	33. 0	33. 1	3
Hens	do	19. 6	30. 4	28. 0	28. 1	18.8	32. 7	31. 3	32.8	19. 0	31. 4	29.3	3
Salmon, canned, red	do		37. 2	35. 4	36. 2		32.9	34.7	34. 4		37. 4	36. 0	1 3
Milk, fresh	Quart	10.0	15. 0	14.7	14.7	7.0	10.0	11.0	11.0	7.0	11.0	12.0	1
Milk, evaporated	15-16 oz. can.		12.4	12.8	13.0		11.4	11.7	11.6		12.5	12.7	1
Butter	Pound	42.1	55. 3	58. 4	58. 6	40.2	56. 0	60. 9	57.4	39. 1	54. 2	57. 9	5
Salmon, canned, red	do		28.3	28. 6	28. 6		26.7	28.8	29. 0		26. 4	28. 4	2
Nut margarine	do		24. 6	25.1	25. 0		25.3	27. 6	27.7		24. 9	26.6	2
Cheese	do	20. 0	36. 8	34.7	33. 9	22.7	35.8	36. 6	35.6	20. 8	36. 7	35. 7	1 9
.0.00	An I	1915 198	116 7	17 2	3.6 E	15 11	17 4	10 41	18 6	15 9	107 ()	10 4	ľ
Vegetable lard substitute Eggs, strictly fresh	Dozen	99.3	21. 7 40. 2	23. 7 50. 6	24. 1 45. 0	29.0	22. 5 42. 5	25. 3	25. 4 47. 7	28 1	23. 2	27.1	2
												1	1
Eggs, storage Bread Flour	David	20. 0	31.0	37. 5		22.0	32.2	35. 5	34.8	21. 7			
Bread	Pound	6.0	9.0	9.0	9.0	2. 0	8.9	8.8	9. 2	5. 7	9.0		1
Commence	40	3. 1	D. D	0. 1	0. 3	3.1	4.3			2.9			
Corn mealRolled oats	do	2.4	2.9		0. 5	8. 3	3.8	4. 5	7.0	2.4	3. 5		
					M. D		7. 0	7. 5	4. 0		8. 7	8.4	
Corn flakes	8-oz. pkg		9. 5	9.9	10.1		9. 1	9. 4	9.4		10. 2	10.0	1
W neat cereal	28-02. DKy		23. 8	26. 9	24. 4		24. 0	24. 2	24. 2		24. 9	24. 2	2
M acarom.	round	9 5	15. 3	8.4	18.7	0.0	17. 0	10.4	10. 4	0 0	17. 6	17.8	
Corn flakes	do	4.0	12.0	10.0		M. U	11.5	9.7	9. 5	0.0	11. 2	9.6	
Dotates	do	9.00	2.5		2.0	1.2		2.1					-
Onione	40	1.40	4.8	3. 2 5. 5	8.2	1. 2	1.4 5 3	6.3	6.2	1.0			
Cabbaga	do		4.7	4.6	4.0		3.8	4.6	6.0		3. 8		
Reans, baked	No. 2 can		12.0	12 0	13. 0		11 7	11.0	12.0		18.8		
Potatoes Onions Cabbage Beans, baked Corn, canned	do		14. 5	14.8	14.9		15.2	15.7	15. 7		13. 6		
Page conned	An		17 1	177 75	10 1		15.0	10 7					1
Cornetoes eeppood	do		19 9	19 7	19 9		12 4	34 2	14 0		10. 0	14 0	1
mgar granuloted	Paund	16 (F)	2.0	10.2	10.7	5.4	8 9	9.7	10.0	5.0	0 2	10.3	1
Lea	do	63.9	89 3	85.4	84 6	50 0	70 9	70.5	70.9	45 0	65 5	65 2	6
Peas, canned Tomatoes, canned Sugar, granulated Tea Coffee	do	27.5	37.2	38. 3	38. 9	27. 5	34.1	35. 0	35. 9	30. 8	41.3	42. 5	4
Raisins	do		18.5	16 5	16.5	02.02	18 2	15 5	15 4		19 9	16. 4	1
Prunes Raisins Bananas	Dozen	0.08	84.4	37 a	35 5		10 4	12 5	8 12 O		12 5	315 1	3 1
Oranges	4		00.0	80 0	80 0		40.0	40 0	10 0		40 7	AF (	1 4

4 Whole.

1 No. 3 can.

Per pound.

CLES OF FOOD IN 51 CITIES ON SPECIFIED DATES-Continued.

ARTI

Minn.

Feb. 15, 1924,

Mo	bile,	Ala.	N	ewarl	k, N.	J.	New	Hav	en, C	onn.	Ne	w Orl	eans,	La.	Ne	w Yo	rk, N.	Y.
řeb.		Feb.	Feb.	15—		Feb.	Feb.	15-		Feb.	Feb.	15	Jan.	Feb.	Feb.	15-	Jan.	Fel
15.	15, 1924.	15, 1924.	1913	1923	15, 1924.	15, 1924.	1913	1923	15, 1924.	15, 1924.	1913	1923	15, 1 <b>924</b> .	15, 1924.	1913	1923	15, 1924.	15, 192
10 8	31, 9 30, 8 25, 4 20, 4	29. 2 23. 5 19. 2	Cts. 25. 2 24. 8 19. 6 16. 8 11. 6	38, 5 33, 4 21, 6	43. 1 34. 4 24. 4	42. 7 34. 2 23. 6	26. 2 23. 0 17. 6	39. 3 33. 3 24. 5	42. 8 35. 4 25. 9	142 2	17. 5 18. 8 13. 8	28, 1 26, 7 19, 8	29. 0 28. 8 21. 2	29. 0 28. 4 20. 9	Cts. 24. 7 23. 1 21. 1 15. 1 14. 0	34.7	36. 7 23. 0	40. 36. 22.
44. 6 34. 4	38. 3 43. 5	37. 7 41. 3 39. 0	19. 6 22. 0 118. 6 20. 8 21. 8	37.8 127.1 37.2	38. 5 126. 7 36. 8	38. 3 125. 8 36. 9	26. 2 30. 0 18. 8	51. 3 36. 8	37. 8 51. 0 36. 6	26. 6 37. 4 50. 6 36. 2 39. 1	29. 3 26. 0 20. 1	41. 1 42. 3 39. 4	37. 1 39. 7 39. 2	37. 2 40. 0 78. 0	23. 1 27. 8	38.0 47.2 34.9	48. 2 35. 5	35. 49. 34.
	20. 0 12. 5 62. 3	20: 0 12: 6 61: 7	9. 0	11. 9 59. 1	15. 5 12. 0 65. 3	28. 1 15. 5 12. 0 63. 8 31. 5	9. 0	12. 2 56. 7	16.0	15.0 12.4 60.4	41.8	11.8	15. 0 12. 1 60. 8	11.9	9. 0 41. 5	28. 3 15. 0 11. 8 58. 0 28. 7	14. 0 11. 9 63. 0	14 11 60
28. 1 39. 0 18. 0 18. 0 37. 8	37. 1 18. 9 20. 1	36. 8 17. 9	24. 5 15. 7	38. 8	18. 8 24. 8	F 40, 9	14.7	17. 0 21. 7	38. 6 18. 6 23. 7	30. 0 38. 3 17. 9 24. 3 61. 5	22. 0 14. 7	16. 9 23. 2	36. 6 17. 9 21. 1	25 6	15, 7	25. 1 37. 5 17. 8 23. 2 55. 0	19. 4 25. 6	38 19 20
35. 0 8. 6 5. 4 3. 2 8. 9	8.8 4.9 3.8	8.8 5.1 3.8	5. 6 3. 5 3. 6	8.5	8. 5 4. 5 6. 6	8.5 4.6 6.5	6.0 3.2 3.2	4.7	8. 3 4. 3 6. 2	8.3 4.5 6.2	5. 1	7. 7 5. 8 3. 1	5. 4 3. 6	7.7 5.4 3.7	6. 0	9.7	9. 4 4. 7 5. 7	9
9, 3 23, 8 20, 2 8, 4 12, 5	23. 3 19. 2 8. 7	23. 5 19. 7	9. 0	8. 9 24. 8 21. 4 9. 1 10. 6	23. 5 20. 9 9. 6	23. 5 20. 9 9. 8	9.3	24. 4 22. 3	23. 8 22. 6 10. 4	23. 8 22. 6 10. 4		23. 9 8. 5 8. 6	24. 0 9. 6 9. 3	23.9 9.6 9.3	8.0	8. 7 23. 2 20. 3 9. 6 11. 5	22. 6 20. 2 9. 5	22
2. 6 5. 4 3. 8 12. 7 14. 8	5.7 5.5	5. 6 6. 1 12. 1		6. 0	6. 2 5. 6 11. 1	6.5 6.3 11.4	1.7	2. 4 5. 9 4. 4 12. 4 17. 7	6. 5 5. 4 11. 9	6.7 5.8 12.1		4. 8 4. 2 13. 1	5. 1	5, 1 5, 1 12, 5	2. 5	5. 5 4. 5 11. 7	5. 9 4. 7 12. 0	4
12. 4 8. 9	16. 0 11. 7 10. 3 77. 2 38. 3	11. 9 10. 5	5. 3	7.8	12. 9. 9. 9	12. 1 10. 0 58. 3	5. 2	221. 8 8. 3 57. 6	<sup>2</sup> 21. 4 10. 4 56.	2 20. 3 5 <sup>2</sup> 21. 8 7 10. 1 57. 6 7 41. 0	5. 3	12. 6 8. 4 71. 7	68.7	11.6	4. 9	11. 2 8. 0 52. 0	11. 6 9. 6 58. 7	11 50
20. 2 27. 1	17. 7 16. 1 30. 0	16. 4 29. 4		16. 4 35. 7	15. 3 38.	16. 1 15. 3 0 38. 0		18.6	15.			19. 0	18.6 15.7 24.6 37.3	15. 7		18. 5 17. 0 43. 1 53. 7	15. 6 43. 9	15

# TABLE 5.-AVERAGE RETAIL PRICES OF THE PRINCIPAL ARTI

CLE

Ph

Feb

1913

23. 23. 21. 16. 11.

8.

24. 4. 3. 2

The second	100000	No	rfolk,	Va.	(	Omaha	, Nebr	1 74	Pe	eoria, I	11.
Article.	Unit.	Feb.	Jan.	Feb.	Feb.	15-	Jan.	Feb.	Feb.	Jan.	Feb.
And the test of the	Spin Star	15, 1923.	15, 1924.	15, 1924.	1913	1923	15, 1924.	15, 1924.	15, 1923.	15, 1924.	15, 1924
Sirloin steak	do	29. 0		Cls. 40. 9 34. 4 33. 0 21. 5 14. 5	19. 2 16. 7 13. 5	Cts. 33. 2 29. 3 24. 6 18. 9 9. 8	Cts. 36. 2 31. 6 26. 6 20. 5 10. 4	Cts. 35. 9 31. 8 25. 6 19. 9 10. 4	23. 1	29. 9 22. 9 19. 9	29. 23. 19.
Pork chops	do	37 0	25. 5 32. 1 36. 6 38. 1 35. 7	25. 7 32. 5 38. 6 37. 8 35. 3	16. 5	25. 9 45. 6 48. 8 34. 8 30. 4	25. 8 43. 1 46. 9 36. 5 30. 8	24. 6 43. 1 46. 9 36. 2 30. 4	26. 0 41. 1 45. 4 33. 9 28. 9	39. 7 43. 9 34. 4	39.3 44. 33.
Salmon, canned, red	do	29. 7 17. 0 11. 2 56. 9 30. 0	28. 8 17. 0 11. 7 60. 8 31. 7	28. 6 17. 0 11. 7 61. 7 31. 7	8. 2	33. 5 11. 0 11. 9 52. 9 28. 7	33. 2 12. 2 12. 0 59. 1 30. 0	33. 2 12. 2 12. 0 56. 6 29. 7	32. 7 10. 8 11. 9 54. 4 29. 5	12. 0 59. 4	12.1 57.
Nut margarine	do	27. 7 35. 3 16. 4 17. 7 42. 6	27. 0 33. 1 17. 3 18. 4 47. 3	27. 4 33. 2 16. 4 18. 0 47. 5	22. 9 16. 4 25. 0	27. 4 36. 6 18. 9 23. 0 38. 2	28. 6 35. 6 19. 6 26. 0 46. 7	29. 1 35. 4 19. 0 25. 8 41. 5	27. 1 37. 3 17. 1 23. 7 38. 7	28. 8 38. 0 19. 1 25. 8 51. 1	29.38.18.25.48.
Eggs, storage	do	4. 8 3. 4 8. 1	38. 3 7. 8 4. 4 4. 0 8. 1	37. 5 7. 8 4. 5 4. 0 8. 0	5. 2 2. 9 2. 4	9. 8 4. 2 3. 6 9. 6	35. 2 9. 9 3. 8 4. 0 10. 2	32, 5 9, 9 3, 8 4, 1 10, 5	28. 0 8. 0 4. 7 3. 7 9. 1	35.3 8.6 4.5 4.2 9.1	
Corn flakes		9. 6 24. 3 19. 8 9. 7 10. 7	9, 2 23, 3 20, 4 9, 9 10, 0	23. 3	8, 5	10. 2 24 3 19. 9 9. 4 11. 8	9. 7 24. 4 20. 1 9. 0 10. 7	10. 0 24. 9 20. 1 9. 1 10. 7	10. 0 26. 4 19. 4 9. 5 12. 3	9. 8 25. 8 119. 5 9. 8 9. 7	9.5 25.1 19.5 9.4
Potatoes Onions Cabbage Beans, baked Corn, canned	dodo do No. 2 cando	2.3 5.5 4.2 10.3 14.9	2.7 7.0 4.4 9.7 15.9	5. 6 9. 7	1.3	1. 6 4. 4 4. 2 15. 4 16. 6	2. 4 6. 1 5. 5 14. 8 16. 9	2.3 6.1 5.2 14.8 17.0	1. 7 5. 6 4. 5 13. 3 14. 1	2.2 7.1 4.3 12.9 14.3	2.1 7.1 4.8 12.8 14.2
Peas, canned	Pounddododododododododo	18. 3 12. 3 7. 9 76. 4 37. 8	18. 5 11. 0 9. 7 80. 6 37. 7	18. 8 11. 0 9. 7 79. 9 37. 3	5. 7 56. 0 30. 0	17. 1 13. 9 8. 7 74. 2 40. 9	16. 4 14. 2 10. 1 76. 9 41, 1	16. 5 14. 5 10. 3 76. 9 41. 3	17. 1 14. 3 9. 2 61. 1 36. 7	17. 8 14. 1 10. 7 62. 6 36. 9	17. 6 14. 6 10. 8 62. 3 37. 2
Prunes Raisins Bananas Oranges	do Dozen	19. 4 18. 0 34. 2 41. 2	16. 3 15. 8 37. 5 38. 3	15. 5 38. 3		20. 3 20. 8 4 12. 6 51. 5	19, 2 18, 4 4-13, 7 40, 6	18. 8 18. 3 4 13. 6 39. 3	22.1 20.1 411.1 48.2	20. 5 16. 9 4 13. 9 42. 8	20.6 16.8 4 13.5 42.4

<sup>&</sup>lt;sup>1</sup> The steak for which prices are here quoted is called "sirloin" in this city, but in most of the other cities included in this report it would be known as "porterhouse" steak.

CLES OF FOOD IN 51 CITIES ON SPECIFIED DATES-Continued.

RTI

eb. 15, 924.

Ph	iladel	phia,	Pa.	Pi	ttsbu	rgh, I	Pa.	Port	land,	Me.	Po	ortlan	d, Or	eg.	Pr	ovide	nce, R	, I.
Feb.	15-		Feb.	Feb.	15—	Jan.		Feb.		Feb.	Feb.	15—	Jan.	Feb.	Feb	15—	Jan.	Feb.
1913	1923	15, 1924.	15, 1924.	1913	1924	15, 1924.	15, 1924.	15, 1923.	15, 1924.	15, 1924.	1913	1923	15, 1924.	15, 1924.	1913	1923	15, 1924.	15, 1924.
										Cts. 1 56.9 44.0 29.4 19.2 15.6					11. 1	Cts.  1 64.6 45.6 35.4 25.3 15.9	Cts. 1 69. 4 48. 1 38. 3 27. 3 18. 5	20.0
23. 4 29. 0 18. 6	30. 3 37. 6 51. 1 38. 2 38. 9	35. 1 49. 3 38. 0	34. 7 48. 7 38. 0	27. 2 29. 0 21. 5	52. 3 38. 1	41. 0 52. 9	52. 8 38. 1	38. 2 47. 0 36. 2	35. 6 46. 9 35. 6	26. 6 34. 9 46. 8 34. 3 39. 1	27. 5 28. 8 17. 0	44. 1 46. 8 34. 4	42. 9 46. 9 33. 7	41. 4 46. 6 33. 5	21. 8 28. 5 20. 0	37. 2 52. 3 39. 4	39.7	35. 4
	12.3 62.8	12. 0 66. 5	12. 2	43. 1	11.8 59.7	64. 5	11. 9 62. 6	13. 4 61. 3	13. 4 63. 2	27. 7 14. 0 13. 6 64. 1 31. 7	43. 5	36. 8 12. 6 12. 0 53. 8 27. 8	12. 0 55. 9	11. 4 55. 1	41.0	12.4	12. 5 59. 7	14. 0 12. 4 60. 4
25. 0 14. 4 30. 1	39.3	38. 0 17. 6	16. 6	24. 5 15. 1	38. 3	39. 3 18. 0	39. 1 17. 3	38. 8 17. 9	39.4	28. 2 39. 5 18. 0 23. 5 58. 8	21. 3 17. 9	39.3	37. 5 20. 0	19. 6	22. 7 15. 0	27, 7 36, 5 17, 0 23, 1 62, 7	28, 8 36, 6 18, 4 25, 1 67, 2	36. 5 17. 5 25. 5
24. 0 4. 8 3. 2 2. 8	8.5	38. 1 8. 5 4. 6 4. 1 8. 1	8.5	5. 4 3. 1 2. 7	35, 5 8, 5 4, 6 4, 0 8, 4	8. 5 4. 3 4. 6	8. 5 4. 4 4. 5	9. 3 5. 1 4. 5	40.8 9.3 4.4 4.8 7.0	9.3 4.5 4.7		40. 0 9. 4 4. 5 3. 6 9. 4	9. 2 4. 0 4. 0	9. 2 4. 0	2.9	8.8 5.2	41. 9 8. 7 4. 9 4. 3 9. 2	
9.8	21.3 10, 2	20. 1 10. 6	23. 7	9. 2	19.7 9.3	24, 5 20, 4	24. 1 20. 5 10. 3		24. 7 24. 0 10. 5	24. 7 24. 2 10. 7	8. 6	11. 3 27. 4 18. 5 9. 1 9. 8	26. 1 17. 9 10. 0	25, 9 18, 1 10, 0	9. 3	9. 9 24. 8 22. 3 9. 6 11. 1	9. 7 24. 3 22. 9 9. 6 10. 3	22. 9 9. 5
2.1	5. 0 4. 1 11. 4	4.7 11.3				6. 0 4. 9 12. 6	6. 1 5. 3 12. 4	5. 8 3. 5 15. 4	3. 3 14. 9	5. 8 3. 5 15. 1	0. 7	1. 4 4. 3 4. 3 16. 4 16. 9	4. 8 5. 2	6. 6	*****	2. 3 5. 7 5. 6 12. 8 17. 5	2. 8 5. 9 4. 4 12. 1 17. 3	2.8 5.9 5.4 12.1 17.3
4. 9 54. 0 25. 0	12.3 7.5 59.2	12. 1 9. 4 60. 4	9. 7 60. 0	5. 8 58. 0	8. 6 76. 0	10. 2 78. 6	10. 4 78. 4	8. 7 57. 6	10. 1 60. 5	20. 1 2 22.7 10. 4 60. 5 42. 2	55. 0	9. 1 64. 3	3 16.9 10. 4 70. 5	18. 2 16.9 10. 5 71. 1 41. 2	5. 1 48. 3	20. 1 13.8 8. 5 60. 1 41. 2	60. 4	12.4 10.2 58.7
	18. 2 33. 4	15. 0 34. 3	15. 7 15. 0 35. 0 38. 2		18. 4 43. 4	46, 2	15. 1 44. 0	18.6	14.3 4 12.6	16. 6 14. 5 4 12.4 39. 8		18. 8 4 15.5	14.9 4 16.6	4 16.3		20, 2 18, 1 34, 4 53, 3	18. 1 15. 3 34. 2 40. 4	

<sup>2</sup> No. 3 can.

'No. 21 can.

\*Per pound.

TABLE 5.-AVERAGE RETAIL PRICES OF THE PRINCIPAL ARTI

CL

-T.F mestimet ('500)	(hither and	R	ichmo	nd, V	7a.	Roch	ester	N.Y.	8	t. Lo	lis, M	Ío.
Article.	Unit.	Feb.	15—		Feb.			Feb.	Feb.	15—	Jan.	Pak
All the test has the la	esi cun	1913	1923	15, 1924.	15, 1924.	15, 1923.	15, 1924.	15, 1924.	1913	1923	15,	15
Sirloin steak	do	Cts. 21. 8 19. 6 18. 9 14. 3 11. 4	37. 4	38. 9	Cts. 39. 2 34. 5 30. 3 22. 1 15. 5	36. 2	39. 6	39. 2	22. 8 20. 4 17. 6 14. 2	33. 3	35, 4 33, 1 28, 4	34.1 32.1 28.1
Pork chops Bacon, sliced Hain, sliced Lamb, leg of Hens	do	23. 4 23. 3 18. 7	35. 4 39. 3	31. 2 36. 9 42. 1	30. 8 37. 5 42. 5	35. 1 44. 5 37. 8	33. 9 45. 3 35. 8	28. 7 33. 3 45. 1 35. 2 38. 7	17. 1 23. 0 26. 7 17. 8	23. 5 37. 6 42. 4	23.1 37.3 43.9 34.7	23.1 36.2 42.7
Salmon, canned, red	do		14.0	14. 0 13. 6 66. 1	31. 6 14. 0 13. 7 65. 9 29. 2	13. 0 12. 1 58. 9	12 2	28. 8 12. 5 12. 1 60. 9 31. 2	8 0		32.7	32.6
Nut margarine Cheese Lard Vegetable lard substitute Eggs, strictly fresh	do do Dozen	22. 3 15. 0 26. 8	17. 7 22. 2 46. 7	36. 5 18. 7 24. 5	36. 5 17. 6 24. 7	37. 3 17. 2 19. 4	29. 1 37. 5 17. 8 22. 1	29. 1 37. 3 17. 6 21. 8	20.8	24. 5 36. 5 13. 8 22. 3	25.3 35.3 15.0 25.5	25.2 35.1 13.8
Eggs, storace Bread Flour Corn meal Rolled oats	Pounddo	20. 0 5. 4 3. 3 2. 0	40. 0 9. 1 5. 0 3. 9 9. 4	8.6 4.5 4.5	8.6 4.5 4.5	8. 0 5. 0 4. 8	8. 0 4. 4	8. 0 4. 5 5. 0	20. 0 5. 5 3. 0 2. 1	35. 0 8. 9 4. 1 3. 0 8. 4	8.9 4.2 4.1	8.9 4.1 4.0
Corn flakes	8-oz. pkg 28-oz. pkg Pound	9. 8	9. 7 26. 3 21. 8 10. 8	9. 6 26. 2 20. 4 11. 1 10. 9	25. 3 20. 4 11. 1	24. 8 18. 4 9. 4	9. 5 24. 0 19. 0 10. 0 10. 1	9. 5 24. 0 19. 1 9. 9 10. 0	8. 6	8. 8 23. 3 19. 5 8. 5 11. 3	23. 7 20. 0 9. 2	23.6 19.9 9.2
Potatoes Oniens Cabbage Beans, baked Corn, canned	do	1. 7	2. 7 5. 9 5. 3 11. 8 15. 5	3. 3 7. 1 5. 1	3. 4 7. 3 6. 1 11. 7 14. 7	1. 5 5. 1 3. 4 11. 4 16. 3	2. 1 5. 6 3. 6 11. 3 15. 8	2.1 5.7 4.1	1. 5	2. 0 5. 4 4. 5	5.8	5.6
Peas, canned Tomatoes, canned Sugar, granulated Tea Coffee	do do Pounddodo	5. 3 56. 0 27. 4	19. 1 12. 2 8. 4 78. 5 38. 4	20. 4 12. 0 10. 4 82. 7 38. 5	11.8	8. 4 62. 3	9. 9	9. 9	5. 1	8.6 66.3	12.6 10.1 69.2	10.3
Prunes Raisins Bananas Oranges	do Dozen			-	19. 0 15. 1 39. 7 35. 0	20. 3 17. 7 43. 7 51. 0	19. 6 14. 4 44. 2 45. 0	18. 9 14. 2 43. 8 40. 9		21. 9 17. 9 28. 3 47. 6	16. 1	15.5

<sup>&</sup>lt;sup>1</sup> No. 2½ can.

CLES OF FOOD IN 51 CITIES ON SPECIFIED DATES-Continued.

St. I	Paul, M	finn.	Salt	Lake (	City, U	Itah.	San :	Franc	eisco,	Calif.	Sava	annah	, Ga.	8	erant	on, P	a.
Feb.	Jan.	Feb.	Feb.	15—	Jan.	Feb.	Feb.	15—		Feb.			Feb	Feb.	15—	Jan.	Feb
15, 1923.	15, 1924.	15, 1924.	1913	1923	15, 1924.	15, 1924.	1913	1923	15, 1924.	15, 1924.	15, 1923.	15, 1924.	15, 1924.	1913	1923	15, 1924.	15 192
Cts. 33. 5 26. 3 27. 4 19. 4 10. 8	27. 9 26. 1 20. 1	25. 6 19. 4	19. 5 19. 2 15. 0	Cts. 26. 3 23. 0 21. 1 16. 3 11. 8	Cts. 26. 9 23. 8 20. 3 16. 8 11. 7	24. 1 20. 3 16. 9	19. 0 20. 7 14. 6	29. 6 26. 6 28. 6 17. 7	28. 9 30. 5 19. 9	32. 0 28. 8 30. 2 19. 9	29. 7 24. 4 21. 9 14. 8	Cts. 29. 2 23. 8 22. 7 14. 5 12. 3	23.3 22.3 13.6	Cts. 21. 8 18. 0 18. 8 14. 6 10. 0	37. 2 34. 6 24. 1	40.1	39. 35. 26.
25. 6 39. 8 42. 7 31. 9 28. 8	35. 7 40. 0 31. 3	34. 2 39. 6	32. 0	28. 1 38. 1 42. 9 31. 1 30. 8	26. 9 35. 5 41. 9 28. 9 31. 3	34. 3 40. 8 29. 8	32.8 30.0	51. 5 52. 8 34. 0	50. 1 51. 1 36. 7	48. 7 50. 8 36. 8	34. 4 36. 8 39. 2	25. 8 32. 4 33. 5 37. 0 33. 5	30. 8 33. 6 37. 0	24. 6 25. 8 20. 0	41.7 54.4 42.5		40 52 42
34. 8 11. 0 12. 1 53. 0 28. 8	12.3 57.2	12.3 55.2	8. 9 38. 6	33. 3 10. 0 11. 2 51. 0	34. 8 10. 0 11. 3 55. 9	11.3		10. 9 58. 0		14. 0 10. 3 58. 8	18. 0 11. 9 59. 8	34. 3 17. 3 11. 5 62. 1 33. 5	17. 5 11. 5 61. 5	40. 0	13. 0 12. 3	12.4	11 12 59
26. 8 37. 4 17. 9 24. 3 40. 9	19.6	26. 6 35. 9 18. 0 23. 7 44. 1	24. 2 18. 1	27. 5 31. 6 20. 3 26. 4 33. 0	29. 8 32. 0 20. 1 28. 9 44. 1	18. 8 29. 1	20. 0 17. 6 25. 0	19. 4 25. 2	38. 7 20. 8 26. 7	38. 3 20. 9 26. 6	36, 2 18, 0 18, 0	32. 3 35. 6 18. 3 18. 7 54. 5	35. 7 17. 7 19. 5	18. 8 15. 8	25. 5 36. 1 17. 7 22. 4 53. 9	36. 5 19. 4 25. 5	36 18 25
32.5 9.4 4.8 3.7 9.4	35. 0 9. 3 4. 2 3. 9 10. 1	33. 2 9. 3 4. 2 3. 9 9. 9	23. 3 5. 9 2. 5 3. 4	9. 6 3. 4 3. 7 9. 3	37. 5 9. 7 3. 2 4. 0 9. 1	30. 0 9. 7 3. 2 3. 9 9. 0	5.7	9. 0. 5. 2 4. 7 9. 4	37.7 9.1 4.8 4.7 9.8	9. 1 4. 8 4. 7 9. 5	36. 7 8. 7 5. 6 2. 8 8. 6	8. 1 5. 3 3. 3	8. 1 5. 3 3. 4	3.5	37. 0 8. 9 5. 3 6. 2 9. 5	42.0 8.9 5.1 5.6 9.7	5 5
9. 9 25. 4 18. 8 0. 4 11. 6	10. 0 25. 0 18. 7 10. 1 9. 8	10. 0 25. 0 18. 7 10. 1 9. 9	8. 2	11. 4 25. 4 19. 6 9. 2 10. 5	10. 9 24. 9 18. 9 8. 8 10. 4	10. 9 24. 9 18. 7 8. 8 10. 4	8. 5	24. 0 14. 6	10. 6 23. 0 15. 3 9. 1 9. 6	23. 0 14. 5 9. 0	17. 9 8. 1		23. 4 17. 5 8. 5	8. 5	$\frac{23.1}{9.7}$	9. 9 25. 8 23. 0 10. 0 11. 8	25 22 9
1. 5 4. 2 3. 8 14. 4 14. 7	1. 6 6. 8 4. 1 14. 0 15. 4	1. 7 6. 9 4. 6 14. 0 15. 4	1. 0	1. 2 3. 2 3. 1 15. 6 13. 8	1. 9 4. 4 3. 4 15. 5 14. 4		1. 5	3.9	3. 3 3. 7 13. 9 17. 2	13. 8	4.5 12.3	5. 0 12. 0	3. 0 7. 0 5. 8 12. 4 14. 4		2. 1 5. 8 4. 4 12. 1 16. 4	2. 5 5. 9 4. 1 12. 3 17. 3	6. 12
16. 8 14. 1 9. 3 67. 3	17. 2 14. 1 10. 6 67. 5 43. 1	17. 2 14. 4 10. 8 67. 9 43. 5	6. 2 65. 7 35. 8	15. 3 12. 9 9. 5 82. 3 44. 2	14. 9 13. 0 10. 8 84. 6 45. 9	14. 9 13. 0 11. 0 84. 6 46. 3	5. 3 50. 0	114. 0 9. 1 58. 5	9. 9	115. 3 10. 1 50. 4	11. 0 8. 3 66. 6	18. 2 10. 6 9. 9 66. 6 35. 6	10. 7 10. 0 66. 5	52. 5	13. 3 8. 3 60. 6	18. 2 13. 2 10. 1 60. 3 39. 4	13 10 60
	19. 7 17. 9 2 14. 9 51. 7				16. 9 14. 7 2 17. 8 35. 7			18. 7 34. 3		13. 7 33. 6	17.8 33.8	15. 3 14. 6 35. 8 30. 6	15. 2 31. 7		19. 2 33. 2	16. 8 16. 0 34. 7 45. 0	15 34

<sup>&</sup>lt;sup>2</sup> Per pound.

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Jan. Feb. 15, 15, 1924. 1924.

TABLE 5.—AVERAGE RETAIL PRICES OF THE PRINCIPAL ARTICLES OF FOOD IN 51 CITIES ON SPECIFIED DATES—Concluded.

TAI

the a 1924. and the b are l deale each Ef repor firms follo the 1 sent avera Deny Littl New Pitts Loui Was Th merc

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kaga maganasa a asa-			Seattle	, Wash		Spri	ngfield	, III.	Was	hingt	on, I	0.0
Article.	Unit.	Feb.	15-	Jan.	Feb.	Feb.	Jan.	Feb.	Feb.	15—	Jan.	Fe
10/11/12/12/11/10/1		1913	1923	15, 1924.	15, 1924.	15, 1923.	15, 1924.	15, 1924.	1913	1923	15, 1924	19:
	10111571	0.			- Cu	· ·	0.	04-	a.		~	-
Sirloin steak	Pound	Cts.	Cts. 29. 8	Cts. 31. 6	Cts. 31. 9	Cts. 30. 3	Cts. 32. 3	Cts. 32. 8	Cts.	Cts. 42. 3	Cts. 43. 3	C
Round steak	do	20. 0	25. 8	26. 8	27. 2		32. 0	32. 4	21.8	35. 1	36. 8	20
lib roast			23. 9	24. 8	25. 0		23. 0	22. 5	20, 0	33. 5	33 7	1 2
buck roast	do	15. 0	16, 3		17. 3		20. 2	- 19. 9	15.6	22.8	24.1	1 2
Plate beef	do	11. 4	13. 0				13. 2	12.8	10.7	12. 1	13. 1	li
Pork ahons	do	93.4	34. 0	31. 2	30. 9	24. 5	22. 5	22. 8	10 3	31.8	28 6	10
degen sliged	do	30.0	47. 9	45. 8	45. 2			36. 7		38. 8	33 7	
Iam sliced	de	20 2	49. 4	49. 5	49. 6		43. 9	43. 3	28 2	54. 2	59 9	3
Pork chopsBacon, slicedBam, slicedAmb, leg of	de	18.3	33. 4	32. 9	33. 2			37. 9	21.0	40. 5	40.6	3
lens	do	24. 3	31. 3	32. 5	33. 3	30. 4	31.0	32. 7	21. 3	40. 3	39. 4	200
Application of the second seco			31. 2	30. 5	30. 3	32. 4	34. 9	34. 9		27 0	27.9	
filk fresh	Opert	0 1	13. 0	12. 0			12. 5	12.5	9. 0	14.0	15.0	2
filk evenerated	15-1602 can	J. 1	11. 2	11. 0	10. 7		12. 6	12.8	9.0	11 7	12.4	
almon, canned, red Iilk, fresh Iilk, evaporated Jutter	Pound	42 6	55. 5	56. 8	57. 0		62. 8	60.7	44.0	61 0		
leomargarine	do		28. 8				32. 2				30. 2	
ut margarine			28. 5	30. 0	30. 1	26. 9	30. 1	29. 9		27 0	28. 5	
heese	do	21 6	36. 0		36. 0		39. 6		23. 5			
ard	do	17.0	19. 1	19. 3			19. 0	18.0	14. 4	16.9	18.1	1
egotable lard enbetitute	do	11.0	24. 8	27. 1	27. 4			28. 0		23 3	25. 3	1
ard Vegetable lard substitute Eggs, strictly fresh	Dozen	30. 0	37. 1	44. 1	38. 8			50. 5	36. 3	50. 5	54.6	15
				35. 0	35. 0	32. 0	39. 1	39 4	20. 5	40. 0	36. 2	4
read	Pound	5.4	8. 6	9.8	9.8			10. 2				
lour	do	3.0	4.7	4. 1	4. 2			4.5	3. 7	8.2	4.7	
orn meal	do	3. 1	4. 0		4. 2	4. 5			2. 5		4. 2	
ggs, storage tread Nour orn meal Colled oats	do		8. 5	8. 5	8.8	10. 4	10.8				9. 2	
				11. 6	11. 6	9.8	10. 1	10.1	LAT	9.4	9.4	
Cheet coreel	28-07 pkg		25. 8				25. 3	25. 3		24. 7		
Ageroni	Pound		18. 4	18. 1	18. 2		20. 0	20. 0		22.3	21.0	
lien	do	7.7	10. 8	11. 7	11. 8		10. 4	10.0	9. 6	10. 5	10.3	
orn flakes Vheat cereal Accaroni tice eans, navy	do		10. 8					9. 4		11.7	10.0	
				2.4	2.4	1.9	2.5	100	Let L		2.8	-
otatoes	de	. 0	4.7	4.9	4.8	5. 2		7. 1	1.5	5.7	6. 5	
ahhaga	de		4.9		6. 2	4. 8		5.5		6. 0	6. 2	
leans baked	No. 2 can		15. 4	16. 2	16. 2	13. 3		12.8	12.03.1	12.0	11.7	
abbage leans, baked orn, canned	do		17. 2					14.9		14.8	14.8	
				19. 7	19. 5	17. 9	18. 1	18 1		16.0	16.3	3
eas, canned	do		1 15. 7		115 0	1 14. 4		14 4		11.0	11. 4	
ugar granulated	Pound	6 1	9. 6					11. 5				
eas, canned omatoes, canned ugar, granulated	de de	50.0	66. 2				77. 6		57. 5		76.3	
offee	do	28. 0	39. 1						28.8			
runes			18. 5	15. 8	14. 2	21. 9	18. 8	19.0	9-	22.0	18.8	3
aicine	do		18. 6					16. 8		18.7	15.	1
daisins.	Dozen		2 15. 6								38. 2	2
ranges	do									46.3	39.	1
Oranges	do		43. 4	41.0	41.4	58. 2	43. 5	37.3		46. 3	39. :	2

<sup>1</sup> No. 21 can.

<sup>&</sup>lt;sup>2</sup> Per pound

## Comparison of Retail Food Costs in 51 Cities.

TABLE 6 shows for 39 cities the percentage of increase or decrease in the retail cost of food 7 in February, 1924, compared with the average cost in the year 1913, in February, 1923, and in January, 1924. For 12 other cities comparisons are given for the one-year and the one-month periods. These cities have been scheduled by the bureau at different dates since 1913. These percentage changes are based on actual retail prices secured each month from retail dealers and on the average family consumption of these articles in

Feb. 15, 1924

Cts. 43.5 36.0 33.3 22.8 12.8

26.8 33.4 51.1 39.9

38.8

27.8 15.0 12.4 64.1

30.2

39.4 17.2 25.2 53.7

9.0 4.7 4.2

9.2

24. 0 21. 0 10. 2

14.8

10.9 9.9 77.3

34.5

15.4 39.4

Effort has been made by the bureau each month to have perfect reporting cities. For the month of February 98 per cent of all the firms reporting in the 51 cities sent in a report promptly. The following were perfect reporting cities; that is, every merchant in the following-named 36 cities who is cooperating with the bureau sent in his report in time for his prices to be included in the city averages: Atlanta, Baltimore, Boston, Bridgeport, Buffalo, Chicago, Denver, Detroit, Fall River, Houston, Indianapolis, Kansas City, Little Rock, Louisville, Manchester, Milwaukee, Minneapolis, Newark, New Haven, New York, Norfolk, Omaha, Peoria, Philadelphia, Pittsburgh, Providence, Portland, Me., Richmond, Rochester, St. Louis, St. Paul, Salt Lake City, Scranton, Seattle, Springfield, and Washington, D. C.

The following summary shows the willingness with which the

merchants responded in February, 1924:

#### RETAIL PRICE REPORTS RECEIVED DURING FEBRUARY, 1924.

			Geogr	aphical di	vision.	
Item.	United States.	North Atlantic.	South Atlantic.	North Central.	South Central.	Western.
Percentage of reports received	98	100	97	99	96	98
Number of cities in each section from which every report was received	36	14	5_	11	3	3

For list of articles, see note 2, p. 67.

The consumption figure used from January, 1913, to December, 1920, for each article in each city is given in the Monthly Labor Review for November, 1918, pp. 94 and 95. The consumption figures which have been used for each month beginning with January, 1921, are given in the Monthly Labor December, 1921, are given in the Monthly December, 1921, are given in the Monthly December, 1921, are given in the Monthly December Decembe REVIEW for March, 1921, p. 26.

TABLE 6.—PERCENTAGE CHANGES IN THE RETAIL COST OF FOOD IN FEBRUARY, 1924, COMPARED WITH THE COST IN JANUARY, 1924, FEBRUARY, 1923, AND WITH THE AVERAGE COST IN THE YEAR 1913, BY CITIES.

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City.	Februa	Percentage increase, February, 1924, compared with—		City.	Februa	ry, 1924, ed with—	decrease February 1924, com
ehoduled la tage change	1913	February, 1923.	pared with January, 1924.		1913	February, 1923.	Dared wit
Atlanta	45	4	1	Milwaukee	53.	7	10
Baltimere Birmingham	53 50	3	0	Minneapolis	46	3	9
		3	1		47	4	9
Boston	50	2	1	Newark	47	5 3	
Bridgeport		3	1	New Haven	48.	3	
Buffalo	32	4	. 0	New Orleans	46	2	
Butte		1	3	New York	53	3	1
Charleston	51	5.	0.4	Norfolk		5	1
Chicago	55	6	0.2	Omaha	45 1	6	
Cincinnati	46	6	. 2	Peoria		8	
Cleveland	46	4	0.1	-Philadelphia	49	3	1
Columbus		6	1 1	Pittsburgh	51	4	
Dallas	45	3	3	Portland, Me	1	2	1
Denver	:34	2	4	Portland, Oreg	32	1	1
Detroit	52	4	1	Providence	82	1	1
Fall River	48	1	9	Richmond	55	9	
Houston	1	3 4	4	Rochester		3	
Indianapolis	42	4	1	St. Louis	48	4	1
Jacksonville	44	. 6	ô	St. Paul	I WELL	2	1
Kansas City	43	1	1	Salt Lake City	25	3	
Little Rock	39	2	1	San Francisco	43	4	
Lios Angeles	41		9	Savannah	400	9	1
Louisville	37	5	919	Scranton	51	1	1
Manchester	47	3	i	Seattle	30	4	
Memphis	40	4	1 1	Springfield, Ill	Care .	8	1
	20			Washington, D.C	54	2	1

<sup>1</sup> Increase.

## Retail Prices of Coal in the United States.

THE following table shows the average retail prices of coal on January 15 and July 15, 1913, February 15, 1923, and January 15 and February 15, 1924, for the United States and for each of the cities from which prices have been obtained. Prices for coal are secured from the cities from which monthly retail prices of food are received.

In addition to the prices for Pennsylvania anthracite, prices are shown for Colorado, Arkansas, and New Mexico anthracite in those cities where these coals form any considerable portion of the sales for household use.

The prices shown for bituminous coal are averages of prices of the several kinds used. The coal dealers in each city are asked to quote prices on the kinds of bituminous coal usually sold for household use.

The prices quoted are for coal delivered to consumers, but do not include charges for storing the coal in cellar or coal bins where an extra handling is necessary.

<sup>&</sup>lt;sup>1</sup> Prices of coal were formerly secured semiannually and published in the March and September issue of the Monthly Labor Review. Since June, 1920, these prices have been secured and published monthly.

AVERAGE RETAIL PRICES OF COAL PER TON OF 2,000 POUNDS, FOR HOUSEHOLD USE, ON JANUARY 15 AND JULY 16, 1913, FEBRUARY 15, 1923, AND JANUARY 15 AND FEBRUARY 15, 1924.

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	19	13	1923	190	24
City, and kind of coal.	Jan. 15.	July 15.	Feb. 15.	Jan. 15.	Feb. 15.
United States:					
Pennsylvania anthracite—			A		
Store	\$7.99	\$7.46	\$15.55	\$15,77	\$15.73
Chestnut	8. 15	7.68	15, 53	15. 76	15.71
Bituminous	5. 43	5. 39	11. 14	9. 75	9.80
Atlanta, Ga.:				1	
Bituminous	5, 88	4.83	10.44	8. 13	8. 13
Raltimore, Md.:					
Pennsylvania anthracite—			1 40 05		1.10 70
Stove	1.7. 70	1 7. 24	1 16, 25	1 16, 75	1 16, 75
ChestnutBituminous	17.93	17.49	10. 70	7. 90	7. 95
Birmingham, Ala.:			40.70		1, 20
Bituminous	4. 22	4.01	8, 36	8, 23	8, 23
Roston, Mass.:	700 (0.5)				
Pennsylvania anthracite—					
Stove	8. 25	7. 50	16.00	16.00	15. 30
Chestaut	8. 25	7.75	16.00	16.00	15, 30
Bridgeport, Conn.: Pennsylvania anthracite—					
Stove			16.38	16, 50	16, 13
Chestnut.			16.38	16. 50	16. 13
D-#-1- NT V +					
Pennsylvania anthracite—			10.01		40 00
DWVC	6.75	6, 54	13. 24 13. 24	13. 56 1 13. 66	13. 66 13. 66
ChestnutButte, Mont.:	6. 99	0. 80	13. 29	15.00	1.0. 90
Butte, Mont.: Bituminous			11.15	11.42	11.26
Charleston, S. C.:					
Pennsylvania anthraeite-					
Stove	18.38	17.75	1 17. 00	1 17. 00	1 17. 00
Chestnut	1 8. 50	18.00	1 17. 10 12. 00	1 17. 10 1	12.00
BituminousChicago, Ill.:	1.6.75	* 0. 10	12.00	12.00	12.00
Pennsylvania anthracite—					
Stove	8.00	7.80	16. 18	17.00	17.00
Chestnut	8, 25	8. 05	16.05	17.00	17.06
Bituminous	4. 97	4. 65	10. 79	8.69	8. 72
Cincinnati, Ohio:	3, 50	3, 38	9, 42	8.09	8, 56
Bituminous		3. 35	3. %	0.93	Co. 100
Pennsylvania anthraeite—	1 25.45				
Stove	7. 50	7. 25	15. 75	15. 47	15. 41
Chestnut	7. 75	7. 50	15, 75	15. 47	15. 41
Bituminous	4. 14	4. 14	11. 36	8.47	8, 0
Columbus, Ohio: Bituminous	1987		9, 90	7. 25	7. 1
Dallas, Tex.:			9. 50	1.40	****
Arkansas anthracite—					
Egg		**********	18. 13	17.58	18.0
Ditumineus	8. 25	7. 21	15. 38	14. 68	14, 0
Denver, Colo.:				1794	Total or J
Colorado anthracite— Furnace, 1 and 2 mixed	8. 88	9.00	17. 33	16, 75	16.7
Stove, 3 and 5 mixed	8, 50	8, 50	17. 33	16.75	16, 7
Bituminous	5. 25	4. 88	10.69	10.72	10.7
Detroit, Mich.:				-	
Pennsylvania anthracite—					
Stove	8.00	7.45	16. 25	16. 13 16. 13	15, 8 15, 8
Chestnut Bituminous	8. 25 5. 20	7. 65 5. 20	16. 25 11. 89	9. 48	9.6
Fall River, Mass.:	0. 20	0. 20	11.00	2. 30	Splan Call
Pennsylvania anthracite—				Billian et er er	Columb
Stove	8. 25	7.43	16. 42	16.00	16.0
Chestnut	8. 25	7.61	16.08	15, 92	15, 9
iouston, Tex.:			12.83	13. 17	13.1
Bituminous adianapolis, Ind.:			12. 53	10.17	10.1
Pennsylvania anthracite—				- 1	023
Stove.	8.95	8.00	15.75	16.50	16.7
Chestnut	9. 15	8. 25	15.75	16. 50	16.7
Bituminous	3.81	3.70	9. 62	7. 10	7. 2
acksonville, Fla.:	W 80	<b>7</b> 00	15.00	13.00	13.0
Bituminous	7. 50	7.00	15.00	10.00	1 15.0

AVERAGE RETAIL PRICES OF COAL PER TON OF 2,000 POUNDS, FOR HOUSEHOLD USE, ON JANUARY 15 AND JULY 15, 1913, FEBRUARY 15, 1923, AND JANUARY 15 AND FEBRUARY 15, 1924—Continued.

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	19:	13	1923	19	24
City, and kind of eoal.	Jan. 15.	July 15.	Feb. 15.	Jan. 15.	Feb. 15.
Kansas City, Mo.;					
Arkansas anthracite-				radion a simple	
Furnace			\$16, 93	\$16, 29	\$16.36
Stove, No. 4			17. 88	17.38	17.39
Bituminous	\$4.39	\$3.94	8. 88	8. 50	8.5
Little Rock, Ark.:					
Arkansas anthracite— Egg			15,00	15, 00	18.0
Bituminous	6,00	5, 33	11.83	11. 57	15. 0 11. 6
				22.01	11.0
Bituminous	13. 52	12.50	16, 50	15, 70	15, 0
Louisville, Ly	4 00	4.00	10.10	0 40	
Bituminous	4. 20	4.00	10, 18	8.70	8.73
Manchester, N. H.: Pennsylvania anthracite—					
Stove	10.00	8, 50	18,00	18,00	10 0
Chestnut	10.00	8, 50	18,00	17. 50	18.00 17.00
	100				81.13
Bituminous	2 4. 34	9 4. 22	9.41	8,00	7.9
Milwaukee, Wis.:		-		J. San J. San J.	
Pennsylvania anthracite	8,00	7, 85	16, 63	16, 68	
Stove	8. 25	8. 10	16, 61	16, 59	16.6
Bituminous	6. 25	5, 71	12.76	10, 19	16.5 9.9
Minneapolis, Minn.:	. 0. 20	0.11	12.10	20. 10	U. U
Demandrania anthonoite	100			- 1	
Stove	9. 25	9.05	17. 98	18. 14	18.1
Chestnut	9. 50	9, 30	17. 93	18.08	18.0
Bituminous	5. 89	5.79	13. 59	11, 51	11.3
Mobile, Ala.: Bituminous		and a	11.00	11.07	11.0
Newark, N. J.:			11.00	11.01	11.0
Newark, N. J.: Pennsylvania anthracite—	12.43				
Stove.	6. 50	6, 25	12.88	13.45	13, 4
Chestnut	6.75	6. 50	o 12.83	13, 45	13.4
New Haven, Conn.:	100.0				
Pennsylvania anthracite— Stove	7. 50	6, 25	15 75	16.00	10.0
Chestnut	7. 50	6. 25	15. 75	16.00	16.0
New Orleans, La.:	1.00	0.20	10.10	201.00	20,0
Pennsylvania anthracite—	Wall Dist.	100	TITE MALE	200	
Stove	10.00	10, 00	21.75	22.00	22.0
Chestnut	10, 50 3 6, 06	10, 50 2 6, 06	21.75	21.75	21.7
Bituminous New York, N. Y.:	. 0. 00	* 6. 06	11. 21	11.36	11.4
Pennsylvania anthracite—	St. B. Allaha	100	100 000	Interior I	
Stove	7. 07	6, 66	15,00	14. 50	14.1
Chestnut	7.14	6, 80	14.90	14. 50	14, 1
Norfolk, Va.:					
Pennsylvania anthracite—					
Stove			17.00	16.00	16.0
ChestnutBituminous			17. 00 13. 38	16. 00 8, 83	16.0
			13. 30	0.00	0. 3
Omaha, Nebr.: Bituminous	6, 63	6. 13	11.77	10. 17	10.2
Dagwin III .					
Bituminous			7.04	6.37	6.4
Philadelphia, Pa.:	- Charles	1	and the		
Pennsylvania anthracite—	17.16	1 6.89	1 15. 13	1 15, 75	1 15.7
Stove Chestnut	17.38	17.14	1 15. 13	1 15.75	1 15.
Pittsburgh, Pa.:	1.00	4. 14	10. 10	20, 10	- 40.
Pennsylvania anthracite—	tradity ryo	121 2007	or contract		
Stove	17.94	17.38	1 17.00	1 17. 00	1 17.0
Chestnut	18.00	17.44	1 17. 75	1 17. 00	1 17.
Bituminous	3. 16	* 3. 18	8. 32	7. 25	7.3
Portland, Me.:					
Pennsylvania anthracite— Stove	William To		15. 84	16. 56	16.
Chestnut			15. 84	16. 56	16
Portland, Oreg.:					5
Bituminous.	9. 79	9. 66	14. 52	13. 89	13.3

Per ton of 2,240 pounds.
Per 10-barrel lots (1,800 pounds)
Per 25-bushel lots (1,900 pounds.)

AVERAGE RETAIL PRICES OF COAL PER TON OF 2,000 POUNDS, FOR HOUSEHOLD USE, ON JANUARY 15 AND JULY 15, 1913, FEBRUARY 15, 1923, AND JANUARY 15 AND FEBRUARY 15, 1924—Concluded.

	19	13	1923	193	24
City, and kind of coal.	Jan. 15.	July 15.	Feb. 15.	Jan. 15.	Feb. 15.
Providence, R. I.:					
Pennsylvania anthracite—					
Stove	4 \$8. 25	4 \$7. 50	4 \$15. 80	4 \$16. 35	4 \$16. 35
Chestnut	4 8. 25	4 7. 75	4 15, 80	4 16. 35	4 16. 35
Richmond, Va.: Pennsylvania anthracite—					
Stove	8.00	7. 25	16.50	16. 50	16, 50
Chestnut	8. 00	7. 25	16.50	16. 50	16, 50
Bituminous	5. 50	4, 94	13, 30	11. 36	11. 32
Rochester, N. Y.:	0.00	2.02	20.00	11.00	11.00
nlearnin anthronita					
Stove			13, 45	14. 10	14, 10
Chestnut			13, 45	14. 10	14, 10
St Louis, Mo.:					
Pennsylvania anthracite— Stove					
Stove	8. 44	7.74	16.56	17. 13	17. 13
Chestnut	8. 08	7. 99	16. 56	17. 38	17. 38
Bituminous	3. 36	3.04	8. 28	7. 22	7. 19
St Paul, Minn.:					
Pennsylvania anthracite—	0.00	0.05			
Stove		9. 05	17. 67	18. 14	18. 14
Chestnut	9. 45	9. 30	17. 64	18.09	18. 09
Bituminous	6. 07	6.04	13. 89	11. 59	11. 53
Salt Lake City, Utah:					
Colorado anthracito—	11.00	11.50		17.50	17. 50
Furnace, 1 and 2 mixed Stove, 3 and 5 mixed	11.00	11. 50		17. 75	17. 75
Bituminous	5. 64	5. 46	8,76	8, 50	8.48
San Francisco, Calif.:	0.01	0. 10	0.10	5. 50	0. 30
New Mexico anthracite					
Cerillos egg.	17, 00	17, 00	26, 75	26, 50	26, 50
Colorado anthracite-					
Egg	17. 00	17.00	24. 25	24. 50	24, 50
Bituminous	12.00	12.00	17.90	17. 22	17. 33
Savannah, Ga.: Pennsylvania anthracite—					
Pennsylvania anthracite—					
Stove			5 17. 05	5 17. 05	5 17.05
Chestnut			6 17. 05	5 17. 05	5 17. 05
Bituminous			6 13. 67	5 12.12	5 12, 20
Scranton, Pa.:				ALTERNATION AND ADDRESS.	
Pennsylvania anthracite—	4 05	4. 31	9, 82	10, 53	10, 53
Steve	4. 25 4. 50	4. 56	9.82	10. 53	10, 53
Seattle, Wash.:	1.00	4. 00	0.02	10.00	10, 00
Bituminous	6 7. 63	67,70	6 10, 29	6 10, 24	6 10, 24
Springfield, Ill.:	7.00	1.10	10, 20	20. 22	10, 23
Bituminous			4, 93	4, 50	4, 55
Washington, D. C.:			2.00	2.00	24 00
Pennsylvania anthracite-					
Washington, D. C.: Pennsylvania anthracite— Stove	1 7. 50	17.38	1 15. 94	1 16. 33	1 16. 18
Chestnut	1 7. 65	1 7. 53	1 15, 94	1 16. 24	1 16. 10
Bituminous			1 10, 93	1 9, 04	1 9, 00

HOLD

. 15.

\$16.36 17.38 8.52

11.67 15,00 8.73

17.00

18.14

11.07

13. 45. 13. 45

16,00

22.00 21.75 11.43

4. 13 4. 13

6, 00 6, 00 8, 97

0. 22

6.47

5. 71 5. 71

7.00 7.00 7.39

56 1.72

to be all amount commendation also were lower. Form products, lower land, were larger to

Per ton of 2,240 pounds.

Fifty cents per ton additional is charged for 'binning." Most customers require binning or basketing the coal into the cellar.

All coal sold in Savannah is weighed by the city. A charge of 10 cents per ton or half ton is made. This additional charge has been included in the above prices.

Prices in Zone A. The cartage charges in Zone A were as follows: January and July, 1913, \$0.50; February, 1923, \$1.25 to \$1.75, and January and February, 1924, \$1.25. These charges have been included in the price.

# Index Numbers of Wholesale Prices in February, 1924.

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CTRONG advances in prices of certain fuels during February caused a slight rise in the general wholesale price level as measured by the index number computed by the United States Department of Labor through the Bureau of Labor Statistics. This index number, which includes 404 commodities or price series weighted according to their commercial importance, registered 152

for February compared with 151 for the preceding month.

Among the fuels for which comparable prices were collected, Connellsville furnace coke at the ovens averaged 4 per cent higher than in January, Pennsylvania crude petroleum and gasoline averaged 21 per cent higher, mid-continent crude petroleum averaged 211 per cent higher, and that in the California field averaged 441 per cent higher. The increase in the group as a whole was 61 per cent, although certain kinds of bituminous coal were cheaper than in January.

Slight increases over January prices were shown for the groups of metals and building materials, also, owing to advances in pig iron. copper, lead, tin, southern yellow pine lumber, linseed oil, and while

lead.

In the group of farm products prices were slightly lower than in the month before, due to declines in cotton, cottonseed, hogs, eggs, and hay. Cloths and clothing showed a drop of 2 per cent as a result of the considerable decreases in cotton goods and silk. In the group of miscellaneous commodities cattle feed, jute, and manufactured tobacco were cheaper than in January. No change in the general price level was reported for the groups of foods and house furnishing goods.

Of the 404 commodities or price series for which comparable data for January and February were collected, increases were shown in 133 instances and decreases in 104 instances. In 167 instances no

change in price was reported.

INDEX NUMBERS OF WHOLESALE PRICES, BY GROUPS OF COMMODITIES. [1913 = 100.]

BJ 7 02 122	February,	19:	1924		
- Commodity group.	1923.	January.	February.		
Farm products	142 141	144 143	1		
Cloths and clothing Fuel and lighting	199	200 169	i		
Metals and metal products	139 192 132	142 181 132	1		
Chemicals and drugs House-furnishing goods Miscellancous	184 126	176 117			
All commodities	157	151			

Comparing prices in February with those of a year ago, as measured by changes in the index number, it is seen that the general level has declined over 3 per cent. Fuel and lighting materials averaged 15 per cent lower than in February, 1923, while cloths and clothing building materials, chemicals and drugs, house-furnishing goods, and miscellaneous commodities also were lower. Farm products, foods, and metals and metal products, on the other hand, were higher than in the corresponding month of last year.

# Comparison of Retail Price Changes in the United States and Foreign Countries.

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THE index numbers of retail prices published by several foreign countries have been brought together with those of this bureau in the subjoined table after having been reduced to a common base, namely, prices for July, 1914, equal 100. This base was selected instead of the average for the year 1913, which is used in other tables of index numbers compiled by the bureau, because of the fact that in some instances satisfactory information for 1913 was not available. For Belgium, Denmark, Germany, Great Britain, Norway, Sweden, and the city of Milan, Italy, the index numbers are reproduced as published in the original sources. With three exceptions all these are shown on the July, 1914, base in the source from which the information is taken. The index numbers for Belgium are computed on April, 1914, as the base period, those for Germany on the average of October, 1913, January, April, and July, 1914, while those for Milan are based on the first half of 1914. The index numbers here shown for the remaining countries have been obtained by dividing the index for each month specified in the table by the index for July, 1914, or the nearest period thereto, as published. As shown in the table, the number of articles included in the index numbers for the different countries differs widely. These results should not, therefore, be considered as closely comparable with one another. In a few instances, also, the figures here shown are not absolutely comparable from month to month over the entire period, owing to slight changes in the list of commodities included at successive dates.

# INDEX NUMBERS OF RETAIL PRICES IN THE UNITED STATES AND CERTAIN OTHER COUNTRIES.

IND

July July July July July July July

July Aug Sep Oct

Ap Ma Jur

Au Sel Oct No De

Jan Fee Mis Ap Mis Jui See Oe Nic De

Ja Fe M AJ M Ju Ju Se O N D

[July, 1914=100.]

MARKET	United States: 22						Family 3 articles.	
Year and month.	foodstuffs, to De- cember, 1920: since that time 43 food- stuffs; 51 cities (variable). Weighted.	Australia: 46 food- stuffs; 30 towns. Weighted.	Belgium: 56 articles (variable); 59 eities. Not weighted.	Canada: 29 food- stuffs; 60 cities. Weighted.	Denmark: Family food budget; 5 persons. Weighted.	Cities over 10,000 population (except Paris). Weighted.	Paris only. Weighted.	Germany: Family food budget; 5 persons. Weighted,
July, 1914	100	100	1 100	100	100	100	100	9 100
July, 1915	98	131		105	128	3 123	120	
July, 1916	109.	130		114	146	3 141	129	
July, 1917	143	126		157	166	<sup>3</sup> 184	183	
July, 1918	165	131		175	187	3 244	206	
July, 1919	186	147	***********	186	212	3 289	261	
1920.	017	***	450	0.00	070	* 000	070	
July	215	194	453	227	253	3 388	373	126
August September	203 200	194 197	463 471	221 215			373 407	1170
October	194	192	477	213		3 450	420	116 126
November	189	186	476	206		100	426	134
December	175	184	468	200	*********		424	142
1921.	MENTE	20,390	999/12/		pell, gr	de Santific	100 11	
January	169	186	450	195	276	3 429	410	142
February	155	184	434	190			382	136
March	153	181	411	178		4.000	359	135
April	149	173	399	171		3 363	328	133
May June	142 141	168 165	389 384	165 150			317 312	1320 1370
Leaban			7.0		236	1050	204	
July August	145 152	161 158	379 384	148 154	200	1 350	306	149 158
September	150	154	386	159			329	161
October	150	149	391	155		3 348	331	175
November	149	146	394	149		0.0	326	218
December	147	143	393	148	**-**-		323	235
1922.	17700	FILE EXI						
January	139	142	387	149	197	8 323	319	246
February	139	140	380	143			307	302
March	136	141	371	142		1015	294	360
April	136 136	143 146	367 365	138 138		8 315	304 318	435 468
June	138	146	366	137			307	511
July	139	148	366	138	184	* 312	297	683
August	136	149	366	141	104	. 912	289	974
September	137	149	371	139		*********	291	1541
October	140	146	376	138		9 314	290	2662
November	142	145	384	139			297	5498
December	144	146	384	140			305	8070
1923.						150	1	
January	141	145	383	142	180	3 331	309	13660
February	139	144	397	142			316	31830 33150
March	139 140	145	408	145		3 337	321 320	35100
April May	140	152 156	413	143 140		- 331	325	46200
June	141	162	419	138			331	93470
July	144	164	429	137	188	* 351	321	465100
August	143	165	439	142	100	001	328	6704850
September	146	161	453	141			339	173000000
October	147	157	458	144			349	
November	148	157	463	144			355	(9)
December	147	156	470	145			365	(6)

INDEX NUMBERS OF RETAIL PRICES IN THE UNITED STATES AND CERTAIN OTHER COUNTRIES—Concluded.

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2 100

Year and month.	Great Britain: 21 food- stuffs; 600 towns. Weighted.	Italy: Family food budget; 5 persons; Milan. Weighted.	Nether- lands: 27 food- stuffs; Amster- dam. Weighted.	New Zealand: 59 food- stuffs; 25 towns. Weighted.	Norway: Family food budget. Weighted.	South Africa: 18 food- stuffs; 9 towns. Weighted.	Sweden: 21 articles; 44 towns. Weighted.	Switzer- land: 9 groups of food- stuffs. Not weighted.
July, 1914	100	7 100	8 100	100	100	9 100	100	10 100
July, 1915	1321			112		10 107	3 124	10 119
July, 1916	161	151		119	11 160	9 111	9 142	10 140
July, 1917	204 210	210 325		127 139	279	9 124 9 125	177 268	
July, 1918 July, 1919	209	310	210	144	289	9 136	310	
1920.								
July	258	445	217	167	319	9 178	297	246
August	262	454	219	171	333		308	
September	267	468	223	173	336		307	
October	270	480	226	177	340		306	262
November	291	515	220	176	342		303	
December	282	535	208	179	342		294	
1921.	070	270	100	150	004	2 100	000	044
January	278 263	573	199 200	178	334 308	3 166	283	243
February	249	564 582	199	175 169	300		262 253	237
March	238	588	193	169	300	3 151	248	231
May	232	598	189	167	292	202	237	212
June	218	523	186	166	290		234	210
July	220	506	185	164	292	₹ 136	232	214
August	226	518	184	163	297		234	209
September	225	545	184	161	290	2 1 00	228	200
October	210 200	561	173 159	156	288 281	<sup>3</sup> 128	218	200
November	195	570 567	154	152 150	268		211 202	192
1922.								
January	185	558	152	147	257	121	190	189
February	179	562	154	145	245	119	189	179
March	177	525	148	141	238	119	185	177
April	173	499	141	144	234	121	182	16
May	172	503	140	145	230	120	178	158
June	170	494	141	143	227	118	179	157
July	180	492	144	144	233	116	179	158
August September	175 172	498 508	144 145	141	232 228	116	181 180	158
October	172	517	148	139	220	119	178	157
November	176	516	141	139	216	120	170	160
December	178	514	142	138	215	118	168	160
1923.								
January	175	513	145	139	214	117	166	161
February	173	500	146	140	214	117	165	160
March	171	493	145	141	214	117	166	150
April	168	494	143	142	212	117	163	16
May June	162 160	499 502	139 141	143 142	214 213	118 118	161 161	16
July	162	496	140	142	218	116	160	160
August	165	490	141	143	220	115	161	16
September	168	496	143	145	218	115	165	16
October	172	502	147	146	217	117	165	16
November	173	503	146	147	221	120	164	3.70
December	176	500		147	226	118	164	17

<sup>&</sup>lt;sup>3</sup> Quarter beginning month specified. January-June.

Retail Prices in Denmark, July, 1923, and January, 1924.

STATISTISKE Efterretninger for February 12, 1924, issued by the Statistical Department of Denmark gives prices of various commodities for specified localities for July, 1923, and January, 1924. Prices are gathered for Copenhagen, Frederiksberg, and Gentofte communes, all towns, and over 100

Year 1913.
 Year.

<sup>10</sup> Previous month.
11 August.

country districts. The information was secured during the first week of January. For retail prices for January, 1922, and January, 1923, see MONTHLY LABOR REVIEW for May, 1923, pages 107, 108.

AVERAGE RETAIL PRICES OF VARIOUS COMMODITIES IN SPECIFIED LOCALITIES IN DENMARK, JULY, 1923, AND JANUARY, 1924.

[1 øre at par=0.268 cent; 1 kllogram=2.2046 pounds; 1 liter=1.057 quarts; 1 hektoliter=2.838 bushels.]

		July, 1923.		Januar	y, 1924.	
Article.	Unit.	Average for whole country.	Copen- hagen.	Coun- try towns.	110 country dis- tricts.	Ave fo wh cour
Bread:		Ore.	Ore.	Ore.	Ore.	0
Rye	4 kg	107	97	105	104	1 300
Bolted rye	Kg	56	58	54	54	
Wheat	do	81	81	82	80	
Flour, fine		46	45	46	45	
Flour, potato		54 48	67 49	63	60	
Oats.		88	92	88	47 82	
Semolina		68	68	70	67	
Rice		82	94	84	79	
Sago	do	108	118	115	111	
Peas, yellow, shelled	do	113	128	108	100	
Peas, canned, coarse	kg	85	88	92	90	
Sugar, loaf, No. 1	Kg	117	102	103	102	
Sugar, brown, No. 1		103 423	88	89	89	
Tea, common Congo		847	935	425 891	407	
Apples, evaporated, American		199	210	214	885 204	
Apricots, evaporated		392	270	269	256	
Prunes		131	179	128	117	
Raisins, Valencia	do	195	239	198	185	
Fish balls, Faroe Islands Butter	½ kg	89	83	88	88	
Butter	Kg	406	573	562	553	
Margarine, animal	do	229	275	238	226	
Margarine, vegetable		182	196	186	183	
Vegetable oil Cheese, skim-milk	do	179	190 226	194 187	193 175	
Eggs, fresh, Danish	20	263	650	586	555	
Eggs, storage	20	200	373	367	369	
Milk, sweet	Liter	32	45	37	34	
Milk, skimmed	do	11	16	12	11	
Buttermilk	do	15	24	14	12	
Beef, forequarter		216	232 367	208	204	
Veal, forequarter	do	317 212	240	292 207	278 189	
Pork, butts		236	217	247	241	
Pork, backs		53	65	53	58	
Penderloin		400	482	422	416	
Pork, salt		293	301	291	282	
Mutton, forequarter, Icelandic	do	160	178	188	189	
Tam, smoked, boneless		468	442	480	483	
Pork, fat, seasoned		226	299	275	272	
Sausage, summer		489	598 108	450 85	434	
Jerring, fresh		63	120	74	84	
Flounders	do	197	276	179	162	
Clip fish	do	149	149	146	138	
Cabbage	do		13	17.	17	
Carrots	do	(147)	28	22	20	
otatoes, large quantities	50 kg		874	686	609	
Potatoes, small quantities	Kg	20-57	21	18	16	
alt, kitchen	do	18	19	18	17	
Vashing soda, American	do	16	15 98	16	16 95	
Petroleum, water white	Liter	30	31	29	29	
Coal, nut, Scotch	H'liter	474	491	485	490	
oke, crushed, delivered		375	451	411	426	
Electricity	Kilowatt	62	50	65	66	
95	Cu. m.,	36	30	36	39	
indling.	Kg	11	11	10	10	
hoes, men's, boxcalf, sewed oling and heeling—men's shoes	Pair	2, 449	2, 498	2,410	2,408	2,
birth and meeting men s snoes		827	837	834	788	

Gentofte communes, all towns, and over 100

# WAGES AND HOURS OF LABOR.

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Earnings of Male and Female Workers in Massachusetts Manufacturing Establishments, January, 1924.

THE following figures showing average weekly earnings of male and female wage workers in 349 establishments of Massachusetts in January, 1924, were given to the press by the Department of Labor and Industries of that State:

EMPLOYMENT AND EARNINGS OF MALE AND FEMALE WORKERS IN REPRESENTATIVE MANUFACTURING ESTABLISHMENTS IN MASSACHUSETTS IN JANUARY, 1924.

Industry.	Estab- lish- ments		ber of emp		Average weekly earnings.			
	report- ing.	Males.	Females.	Total.	Males.	Females.	Total.	
Automobiles, including bodies and parts	5	1, 558	80	1, 638	\$29.18	\$18.73	\$28, 67	
Boot and shoe cut stock and findings		984	324	1, 308	25. 30	14, 68	22, 67	
Boots and shoes		3, 329	2, 113	5, 442	26, 19	17, 70	22, 89	
Roses, paper	18	2, 138	1,745	3, 883	28, 43	17. 41	23, 48	
Bread and other baker, products	11	956	430	1,386	27, 14	14. 20	23, 13	
Clothing, men's	10	173	319	492	33, 29	15, 53	21. 77	
Clothing, women's	10	64	524	588	36, 52	18, 72	20, 66	
Confectionery		916	1,764	2,680	25, 90	15, 48	19. 04	
Cotton goods	7	1,541	1, 364	2,905	26, 86	20, 69	23, 96	
Cutlery and tools	10	995	98	1,093	26, 54	16.00	25, 66	
Dyeing and finishing textiles	5	1,970	680	2, 650	27. 45	18. 42	25, 13	
Foundry and machine shop products	14	2, 309	125	2, 434	27. 59	18. 58	27. 12	
Furniture		1, 190	182	1, 372	29, 66	17. 22	28. 01	
Hosiery and knit goods	3	253	707	960	29. 23	16. 95	20, 19	
Jewelry	13	423	228	651	27. 22	16, 84	23. 58	
Leather, tanned, curried, and finished		4, 151	232	4, 383	28, 13	14. 67	27. 42	
Machine tools		1,000	114	1, 213	28, 78	16. 46	27. 63	
Paper and wood pulp	14	2,610	777	3, 387	30. 33	16. 40	27. 13	
Printing and publishing, book and job	22	673	192	865	34. 74	22. 56	32.04	
Printing and publishing, newspaper	13	419	75	494	34, 53	26. 66	33. 34	
Rubber goods	6	2, 273	371	2,644	25. 33	14. 30	23, 78	
Rubber tires and tubes	3	2,948	694	3,642	30, 26	19. 53	28, 2,	
Silk goods	8	879	1, 159	2, 038	24. 43	15. 21	19. 19	
Slaughtering and meat packing		1, 403	89	1,492	23. 79	13. 62	23. 18	
Stationery goods	4	202	374	576	31. 03	15. 62	21. 03	
Textile machinery and parts	3	2, 450	165	2,615	30. 62	16, 51	29. 73	
Tobacco	6	710	308	1,018	28. 09	17. 32	24. 83	
Woolen and worsted goods	13	2, 306	1,650	3, 956	26, 27	17. 93	22, 80	
All other industries	50	21, 810	4, 478	26, 288	29. 58	16. 64	27. 37	
Total.	349	62, 732	21, 361	84, 093	28. 53	17. 00	25, 63	

It will be noted from the above table that the total number of males employed by the 349 reporting establishments was nearly three times the number of females employed. The average weekly wage of the males was \$28.53, that of the females, \$17. It is explained that "the higher earning capacity of males is found, no doubt, in the fact that a much larger proportion of males than females is employed in the more highly skilled occupations and in those occupations in which not only skill but physical strength is requisite."

# Average Weekly Earnings in Factory Employments in Wisconsin.

THE following statement from the Industrial Commission of Wisconsin shows the average weekly earnings in factory employments in that State by months in the latter half of 1920 and in the calendar years 1921, 1922, and 1923.

AVERAGE WEEKLY EARNINGS IN WISCONSIN FACTORY EMPLOYMENTS, JULY, 1920, TO DECEMBER, 1923.

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Month.	1920	1921	1922 .	1923
January		\$24, 98	\$19, 82	\$22.4
February		24. 16	21. 44	23. (
March		24. 34	20.75	23. 1
April	~~~~~	24. 02	21. 02	23.
May		23, 30	21.72	24.8
une	*******	23. 01	21. 94	21.7
uly	\$27.73	21. 04	20. 66	22.9
August	29. 81	22. 75	21. 75	24. 2
September	29. 30	21. 69	22. 15	24.2
October	29. 45	21. 72	22.74	25. (
November	28. 24	21. 40	23. 32	25. (
December	26. 87	21. 42	23. 28	24.
Monthly average	28. 57	22. 82	21.71	24.1

# Wages in Hongkong in December, 1923.

THE average daily wages of Chinese workers in various occupations in Hongkong are reported as follows in a consular report dated December 24, 1923:

DAILY WAGES (IN HONGKONG DOLLARS) OF CHINESE WORKERS IN HONGKONG IN DECEMBER, 1923.

[Hongkong dollar=55.8 cents.]

Occupation.	Aver- age daily wages.	Occupation.	Average daily wages.	Occupation.	A ver- age daily wages.
Welders Shipbuilders Pattern makers Machinists Brass finishers Fitters Coppersmiths Boiler makers Blacksmiths	\$2.50 1.80 1.80 1.60 1.60 1.60 1.60 1.60	Ironsmiths Tinsmiths Electricians Engravers Sailmakers Joiners Plumbers Carpenters Riggers	\$1. 60 1. 60 1. 60 1. 60 1. 50 1. 40 1. 40 1. 40 1. 30	Painters	\$1. 20 1. 20 1. 00 1. 00 1. 00 1. 00 1. 00

# Working Hours in Shanghai Silk Factories.

A CONSULAR report dated January 21, 1924, states that 68 silk filatures in Shanghai have agreed to a uniform number of working hours. The length of the working-day is to be 12 hours, including one-half hour for breakfast, one hour for lunch, and another half hour for the women to care for their children, thus reducing the actual hours of work to 10. This agreement conforms with the regulations of the Chinese Ministry of Agriculture and Commerce. Work starts at 5.30 a. m. from May to September and at 6 a. m. from October to April. The Silk Reeling Guild of Shanghai has decided to prohibit the employment of children under 12 years of age in the filatures.

### MINIMUM WAGE.

### Work of British Trade Boards.

A THE time the first trade boards were established in England they attracted wide attention as an attempt to solve the problem of fixing wages in sweated trades, and numerous reports were published of their methods and results. The outbreak of the war turned attention in other directions, and of late there has been little material available to show how they have stood the test of time and the strain of post-war conditions. To meet this lack a volume has recently been issued, entitled "The British Trade Boards System," containing the results of a study carried on in 1921 and 1922.

The growth of the system is traced at some length. The original act under which the boards were established was passed in 1909, and applied only to four trades, mentioned in its text. It provided, however, that the Board of Trade might, subject to confirmation by Parliament, extend the law to other trades, and under this authorization trade boards were set up in 1913 in five new trades. the war and the troubled times of readjustment, for which it was felt that preparation must be made in the hope of securing some measure of economic stability during the transition times. For the wellorganized trades it was felt that the Whitley councils would meet the For the others, an extension of the trade boards principle was advised, and accordingly the trade boards act of 1918 was passed, becoming operative in October of that year. Under its terms some 51 trade boards were set up, so that by the end of 1922 there were in existence 63 boards, covering 39 trades and affecting the wages of approximately 3,000,000 workers.

The author points out that the trade boards system, as it has

developed, is bipartite.

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Legislative power is vested in the trade boards. Administrative and executive functions rest with the Ministry of Labor and have in practice involved four distinct features: (1) Setting up of boards, (2) confirmation of rates, (3) enforcement of legal rates, (4) decision on questions of demarcation and scope.

Application for the establishment of a trade board may come from either the employers or the employees, or from both acting together. If, after investigation, the Minister of Labor considers that conditions justify granting the request, he issues an order applying the act to the trade, and a board is set up, consisting of an equal number of employer and worker members, plus several independent persons called "appointed members." The board is empowered to fix minimum rates of wages, effective for men as well as for women. It must give at least two months' notice of its intention of fixing a rate, and at the end of that time must consider all the objections which have been lodged with it before it proceeds to the actual fixation. The average time required for fixing a rate, since 1914, has been from three to four months. A rate declared by a board must be confirmed by the Minister of Labor before it becomes effective. At his discretion he may refer it back to the board for further consideration, so that there may be considerable delay in bringing it into operation. The boards have power to make special rates for begin-

<sup>&</sup>lt;sup>1</sup> Sells, Dorothy: The British Trade Boards System. London, 1923. 293 pp.

ners and apprentices, and to issue exemptions for workers who through infirmity or physical injury are not able to do normal work, but who nevertheless desire employment and can be of some service.

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The author takes up in great detail the methods employed by the trade boards in fixing rates, and the effect of their work along various lines. The effect upon wages is of course the most immediate. Up to 1918 the trade board rates did not tend to become the maximum wages in a trade, but since the industrial depression, with its widespread reductions in wages, there has been a tendency to bring them down to the lowest rates the trade board decisions permit. In general, however, the effect of the trade boards has been good.

Not only have the poorest paid workers received increments which enabled them to live above the subsistence level, but the semiskilled and even the skilled workers in a number of trades have also, for the first time, been paid a wage which is in any sense commensurate with the skill required of them, and with the standard of living which convention, to say nothing of health and efficiency, makes it necessary for them to maintain. In addition, the workers themselves have had an opportunity to take part in wage fixing. In the long run, even though at present they are unappreciated, these will be found to be most important contributions to industrial well-being.

Being empowered to fix rates for overtime work, the boards have also the right to declare the normal number of hours per week or per day for a trade. In effect, this amounts to the right to fix normal hours. In general the boards have used this right to help along the movement for an 8-hour day and a 48-hour week.

Over a period of 14 years, trade boards appear to have been effective both in reducing the normal number of hours per day or per week, and the amount of overtime as such, for the majority of employers will not, at present, pay rates at one and a quarter times the normal rate if they can get the work done within the 48 hours by better planning, by speeding, or by employing more workers. \* \* \* Employers in general have found very little fault with trade board regulations concerning hours, the probable reason being that there has been no tremendous rush of work during the period in which overtime rates have been in operation. Relatively little violation of the regulations in matters of hours and overtime rates has been discovered.

The effect of the trade board system upon the unionization of the workers has been doubtful. It was supposed that it would lead directly to the better organization of both employers and employees, in order that each side might present its case more effectively. In the early period this appears to have been the result, but since the war the industrial depression has had its natural effect, and organization on both sides has languished. Many of those who have fallen out under pressure of hard times will doubtless return as the situation improves.

But one has also to consider the fact that permanent organization of workers in trade board trades is seriously hampered because a great proportion of the workers are women, which means a constantly fluctuating personnel, and because the entire body of workers in most trades has little or no skill, tradition or solidarity of any kind. Trade boards seem at times to have proved valuable in augmenting organization, but their effect has at other times been overridden by more powerful economic circumstances.

The effect of rate fixation upon employment receives considerable attention. Before the boards were established it was argued that setting a fixed minimum wage would drive the slower and less competent workers out of the industry and would place the employers at a disadvantage as compared with foreign competitors who were not subject to such regulation, and that in both ways it would tend to decrease employment. These fears disappeared soon after the boards began their work. Undoubtedly there were cases in which less able

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to ds workers were discharged because employers did not consider them worth trade board wages, and in which small employers were forced out of business because they could no longer employ workers at sweated wages. In other words, there was a tendency to eliminate the less efficient, whether they were employers or employed, but this did not produce any noticeable results in the way of unemployment.

After the depression of 1920 set in, however, the complaint was made again, and far more earnestly, that the necessity of paying trade board rates was driving employers out of business and causing much unemployment. After a careful study of the situation in separate trades, the conclusion was reached that this complaint had little or no foundation. The unemployment figures for December, 1922, showed eight groups of trades in which 20 per cent or over of the workers were unemployed. One of these groups included the manufacture of nuts, bolts, screws, chains, and anchors. Wages for chain making were under trade board regulation, but with this exception, none of the groups of trades showing the highest percentages of unemployment were affected by trade board activities. On the other hand, 28 trade groups showed less than 10 per cent of their workers unemployed, and of these 10 were trades to which a board applies in at least one branch of the group.

These figures seem to indicate that trade board trades are perhaps in a slightly better position on the whole as regards unemployment than other trades, but any such generalization is hardly justifiable because of the interaction between the conditions in the one trade and those of another.

Some space is devoted to the attack on the trade boards which followed the industrial depression. As unemployment increased and wages in unregulated trades went down, employers began to complain that the trades in which trade board regulations applied were at an unfair disadvantage and were suffering severely from the restrictions imposed by the boards. A committee which held numerous hearings and called witnesses representing all interests was appointed to investigate the complaints. The hearings seemed to show that there was much less opposition to the boards on the part of employers than the public had been led to believe, that the chief demand of the opponents of the system was not for its abolition but for some modifications in its operation, and that the complaints in general were directed quite as much against the administration of the act, which was a mere matter of policy, as against the results of wage fixing. As a result of the hearings, a bill was presented in Parliament in May, 1923, proposing various changes in the acts which would have tended to limit the work of the trade boards. This met with so much opposition that it failed of passage in the last Parliament, and with the coming in of a Labor Government there is little likelihood of its being revived.

Summing up the situation, the author feels that while the trade

boards system is not perfect, it has justified itself.

The British trade boards system has been in operation for more than 13 years, and during that time profound changes, political, economic, and social, have occurred. It has defects, but a careful study of its operation over that period of years can hardly fail to convince the unprejudiced that its merits greatly outweigh its faults, and that what is required is not repeal of the acts, nor alteration of the general principles embodied in the act of 1918, but rather amendment such as will improve the machinery for wage fixation, and some changes in the policy of administration and the methods of the boards.

### CHILD LABOR.

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### Trend of Child Labor in New York State.

THE New York State Department of Labor has recently issued a bulletin, prepared by the bureau of women in industry, showing the situation in regard to child labor in 1922 as compared with 1910. The study is confined to children 14 and 15 years old, as the State laws do not permit the steady employment of children younger than this, nor did they until 1921 require employment certificates for those who have reached 16.

Taking first the census figures for the number and proportion of children gainfully employed in the State and in the city of New York,

the following distribution is shown:

NUMBER AND PROPORTION OF CHILDREN 14 AND 15 YEARS OF AGE EMPLOYED IN NEW YORK, 1910 AND 1920.

Andropen in the control of the contr	191	0	1920		
Item,	Number.	Per cent of total in age group.	Number.	Per cent of total in age group.	
Employed in State: Boys	35, 757 24, 485	24 16	27, 294 19, 730	17 12	
Total	60, 242	20	47, 024	14	
Employed in New York City: Boys. Girls.	20, 696 16, 539	26 20	17, 773 13, 626	20 15	
Total	37, 235	23	31, 399	18	

Both the State and the city, it will be noticed, show a falling off in the number and proportion of children gainfully employed, and this in spite of an increase in population. It is suggested that restriction of immigration may account for a part of this decrease, "as children of newly arrived immigrants have formed a considerable proportion of the number of employed children." No explanation is offered of the fact that in the State the boys show a greater decrease, abso-

lutely and relatively, than the girls.

School attendance figures show that for the State as a whole the percentage of 14 and 15 year old children attending school rose from 78.7 in 1910 to 81.5 in 1920, while for New York City the increase was from 75.5 per cent to 78.1 per cent. School attendance figures taken without distinction of age show that from 1910 to 1922, inclusive, the high schools had a much greater increase in attendance, proportionately, than the elementary and vocational schools, a fact which is attributed, in part at least, to the working of the continuation-school law.

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This law has been in effect since 1920 and has increasingly applied to larger groups of children. Children evidently have been influenced to complete the educational requirements in full-time schools, rather than to go to work and be obliged to attend continuation-school courses while employed.

A study of employment certificates for children 14 and 15 years old going to work shows that the number issued in New York City fell from 36,350 in 1910 to 32,492 in 1922. The movement, however, has been very irregular, reflecting both industrial conditions and the establishment of stricter requirements for entering industry.

Summing up the situation, then, the report shows that since 1910 there has been a reduction in the number of children reported as gainfully employed and an increase in the number attending school. A number of causes, it is pointed out, have combined to produce this result.

Educational standards have been raised by the requirement of further schooling before children may go to work, and by the operation of continuation schools. Legislation has increasingly limited the occupation at which children may work, and has further restricted the hours during which they may be employed. Closer supervision of children who have left school to enter industry has been brought about by a tightening of the provisions of the employment certificate law. There has been a general strengthening of the administrative side of the law and an improvement in methods of enforcement.

The fact remains, however, that according to the latest census enumeration there are 47,024 14 and 15 year old children at work in New York State. The problem of child labor, then, is neither solved nor eliminated. Rather there is serious danger that, since the worst evils of child exploitation have been abolished, there will be a slackening of effort and the public will not per-

ceive the defects and inadequacies in existing conditions.

# Child Labor on Norfolk (Virginia) Truck Farms.

THE Children's Bureau has recently published a study of the work of children on truck farms in the vicinity of Norfolk, Va.¹ In this region, it is pointed out, is carried on what is probably the most intensive truck farming in the United States. Practically all kinds of vegetables as well as melons and many of the small fruits are grown, and with some of the vegetables two crops a year are common. The farms are comparatively small, but are thoroughly cultivated, and the variety of products means a long working season.

Much of the work can be done by children.

In the regions selected for study every farm was visited, and interviews were held with every family in which a child under 16 had worked on a farm during the preceding year. The study was made in May, June, and July, 1923. Data were gathered concerning 895 children in 502 families. The children, all colored, lived for the most part in neighboring villages, or in Norfolk, and came out to the farms daily. They were employed for the most part in harvesting the various crops, though a comparatively small group had done work of all kinds. Girls were seldom employed for general farm work, such as plowing, harrowing, and cultivating, but were employed for lighter work quite as freely as boys. Of the group studied, 426 were boys and 469 girls. One-fifth (20.4 per cent) of the group were 14 but under 16 years old, 52.3 per cent were 10 but under 14

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<sup>&</sup>lt;sup>1</sup>U. S. Department of Labor. Children's Bureau. Child labor and the work of mothers on Norfolk truck farms. Washington, 1924. 27 pp. Bureau publication No. 130.

years, and 26.3 per cent were under 10, the ages of 0.9 per cent were not reported. To a considerable extent they were employed on light work, but this was not always the case, and some had worked very long hours.

One hundred and fifty-six (one-sixth of those included in the study), of whom 109 were under 14 years of age, had worked more than 8 hours a day, and 76, of whom 57 were under 10 years, had worked from 10 to 14 hours. Even picking, one of the simplest kinds of work done by the children, means crawling along on the ground or stooping over under the hot sun, or, as in cutting kale or spinach, exposed to the cold and dampness of winter, and when prolonged for these hours becomes laborious.

The earnings of the children were small, their hourly rates ranging from less than 5 cents up to 40 cents and over; only 3 children, 15 years old, were in this last wage group. Daily earnings, for the 452 for whom they were ascertained, ranged from less than 25 cents to \$1.25 and over; 42.7 per cent earned less than 50 cents; 40 per cent earned 50 cents but less than \$1; and 17.3 per cent earned \$1 or over. In a number of cases the economic condition of the children's families made it probable that even these small earnings were an important contribution to the family income, and in some cases they were probably felt to be indispensable. In this respect it is pointed out as significant that 90 per cent of the mothers in these families were gainfully employed, 370 of them working on truck farms.

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One of the unfortunate features of farm work for the children was its interference with school attendance. Of 606 of the children studied, for whom school attendance reports were secured, 27 per cent had attended less than half the school term, and only 53 per cent had attended as much as 70 per cent. "Farm work was the chief cause of absence, according to statements made by the children's parents." Retardation was general and severe.

The extent of retardation among the children included in the study was greater than that among any other group of rural child workers studied by the Children's Bureau. \* \* \* Of 571 children 8 to 15 years of age who reported their grade in school, 486, or 85 per cent, were below the grades which they should have reached according to the commonly accepted standard of progress; over one-half of the retarded were three or more years below the grades considered normal for their ages. Among colored children working on truck farms in Maryland, both in Anne Arundel County near Baltimore and in the peninsula counties, where the Children's Bureau has made studies of farm work and school attendance, about 71 per cent were found to be retarded.

In order to improve the conditions found in this investigation, it is recommended that some legal regulation should be adopted fixing a minimum age and a maximum working-day for children on truck farms; that fatherless families really in need should receive aid under the State mothers' pension act so that the temptation to put the children to work would be reduced, and that the compulsory school attendance law should be strengthened.

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# LABOR AGREEMENTS, AWARDS, AND DECISIONS.

# Recent Decisions of the Railroad Labor Board.

Wages and Working Rules.

Telegraphers.

**V** 7AGE increases ranging from 2 to 5 cents an hour, punitive overtime pay for the ninth hour, and certain other changes in working conditions were granted telegraphers and allied crafts on certain railroads by decisions Nos. 2025 and 2115, effective November 16, 1923, and January 16, 1924, respectively. The classes of employees seven carriers are named in the decisions. affected are telegraphers, telephone operators, agents (except at nontelegraph stations), agent telegraphers, agent telephoners, towermen, levermen, tower and train directors, block operators, and staff-The decision does not grant horizontal increases as heretofore, the policy of the board in this decision being to equalize the wages of employees of the same classification in the same territory. The board does not attempt to fix differentials as between rates for different positions on the same carrier, but suggests such adjustments by mutual agreement.

In the opinion of the board the overtime work of the majority of this class of employees is so largely under the control of the carrier that the time and a half rule will not impose any appreciable burden.

The rules governing working conditions of these classes of employees appeared in the Monthly Labor Review for April, 1922 (pp. 121-124). Except for the change noted above relative to the overtime rate for the ninth hour, and the changes noted below, the old rules were reaffirmed by the board.

To rule 5 (call rule) and rule 7 (starting time) the following para-

graphs are added:

Rule 5.—For continous service after regular working hours, employees will be paid time and one-half on the actual minute basis. Employees shall not be required to work more than two hours without being permitted to go to meals. Time taken for meals will not terminate the continuous-service period and will be paid for up to 30 minutes.

The spread of the starting time shall be fixed by agreement between the duly authorized representatives of the carrier and the duly

authorized representatives of the employees.

The 30-minute rule with overtime pay in case the meal period is not allowed within the agreed time limit and is worked, which was in effect during the war, was restored (rule 6).

Questions of vacations and sick leave with pay are left to mutual

determination by the parties.

### Clerks and Station Employees.

Disputes between clerks and station employees, represented by the Brotherhood of Railway and Steamship Clerks, Freight Handlers, Express and Station Employees, and certain carriers were disposed

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of by decision No. 1986, effective October 16, 1923. This decision makes applicable to the 40 roads involved the rules relative to overtime, Sunday and holiday work, vacations and sick leave which were promulgated by the board in decisions 1621 and 1668,1 applying to certain other carriers.

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Wage provisions of the decision grant increases of 1 or 2 cents on most of the roads. This decision restores in part the decreases ordered by decision 1074, effective July 1, 1922. Following is the

schedule of increases:

### CLERICAL AND STATION FORCES.

Section 1. Storekeepers, assistant storekeepers, chief clerks, foremen, subforemen, and other clerical supervisory forces, 2 cents.

SEC. 2. (a) Clerks with an experience of two (2) or more years in railroad clerical work, or clerical work of a similar nature in other industries, or where their cumulative experience in such clerical work is not less than two (2) years, 2 cents

(b) Clerks with an experience of one (1) year and less than two (2) years in railroad clerical work, or clerical work of a similar nature in other industries, or where their cumulative experience in such clerical work is not less than one (1) year, 2 cents.

Sec. 3. (a) Clerks whose experience as above defined is less than one (1)

year, 1 cent.

(b) Clerks without previous experience hereafter entering the service (and those now in the service on a monthly rate) shall be paid at the rate of two dollars and thirty-five cents (\$2.35) per day for the first six months and two dollars and seventy-five cents (\$2.75) per day for the second six months.

SEC. 4. Train and engine crew callers, assistant station masters, train announcers, gatemen, and baggage and parcel-room employees (other than clerks),

2 cents

Sec. 5. Janitors, elevator operators, office, station and warehouse watchmen, and employees engaged in assorting waybills and tickets, operating appliances or machines for perforating, addressing envelopes, numbering claims and other papers, gathering and distributing mail, adjusting dictaphone cylinders, and other similar work, 1 cent.

SEC. 6. Office boys, messengers, chore boys, and other employees under 18

years of age filling similar positions, and station attendants, no increase.

SEC. 7. Station, platform, warehouse, transfer, dock, pier, storeroom, stock-room, and team-track freight handlers or truckers, and others similarly employed, 1 cent.

SEC. 8. The following differentials shall be maintained between truckers and

the classes named below:

(a) Sealers, scalers, and fruit and perishable inspectors, one cent (1 cent) per hour above truckers' rates as established under section 7.

(b) Stowers or stevedores, callers or loaders, locators and coopers, two cents (2 cents) per hour above truckers' rates as established under section 7.

The above shall not operate to decrease any existing higher differentials. Sec. 9. All common laborers in and around stations, storehouses and warehouses, not otherwise provided for, 2 cents.

SEC. 10. Telephone switchboard operators, no increase.

Interpretation No. 1 to this decision applies these increases to the rates heretofore established by the board in decisions Nos. 2, 147, 1074, and 1621. A labor member of the board dissents from this interpretation on the ground that certain employees receiving a rate of pay different from that established by the board in these previous decisions will not benefit by the increase. This interpretation, says the dissenting opinion, reestablishes inequalities in rates of pay as between employees of the same class, which had been corrected by mutual agreement by modifying rates set by the board.

<sup>&</sup>lt;sup>1</sup> These rules were published in the Monthly Labor Review for May, 1923, pp. 153, 154. 
<sup>2</sup> See Monthly Labor Review for August, 1922, p. 116-119.

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Employees of the Southeastern Express Co. represented by the Brotherhood of Railway and Steamship Clerks, Freight Handlers, Express and Station Employees are granted time and one-half rates for all overtime, including the ninth hour of work and holiday work, one day's rest in seven, and other changes in their agreement with the company by decision No. 2132 of the Railroad Labor Board effective February 1, 1924. The rules governing overtime and Sunday and holiday work for the group of workers employed by express companies are now similar to those governing this class of employees employed by the railroads and noted in the MONTHLY LABOR REVIEW for May, 1923 (pp. 152, 153).

# Maintenance-of-Way Men and Railway Shop Laborers.

Maintenance-of-way employees and railway shop laborers on seven carriers were granted hourly wage increases of one or two cents per hour by decision No. 2049. This class of employees and other carriers were able to reach an agreement upon wages without reference to the board. This decision, which became effective December 1, is retroactive to June 1, 1923.

### Signalmen.

Signalmen on 32 roads were denied an increase in wages by decision No. 1983, dated October 9, 1923. To the majority decision in this case are appended a dissenting and two supporting opinions.

### Marine Service, San Francisco Harbor.

In the opinion of the board wage increases for certain classes of employees engaged in marine service in San Francisco Harbor are justified by certain local conditions affecting these classes, especially rates paid for comparable service at other points. The following data show the wages prior to adjustment by the board, the increases asked by the Ferry Boatmen's Union of California and the Marine Engineers' Beneficial Association, and the scale granted by the board, which became effective December 1, 1923. These decisions (Nos. 2045 and 2046) affect the Southern Pacific Co., the Atchison, Topeka & Santa Fe Railway System, Northwestern Pacific Railroad, and the Western Pacific Railroad Co.

PREVIOUS AND PROPOSED WAGES AND WAGES FIXED BY RAILROAD LABOR BOARD FOR CERTAIN CLASSES OF EMPLOYEES IN MARINE SERVICE IN SAN FRANCISCO HARBOR.

Class.	Previous wages per month.	Proposed wages per month.	Wages fixed by board's decisions.
Chief engineers	\$225, 00	\$260, 00	\$235, 00
Assistant chief engineers	213. 75	248. 75	223. 75
Assistant chief engineers	165. 00	200, 00	175. 00
Firemen	126, 35	156, 35	136. 35
Deck hands	119, 40	149, 40	129, 40
Cabin watchmen	119, 40	149, 40	129, 40
Night watchmen	100, 00	130.00	110, 00

### Sleeping-Car Conductors.

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Increases in wages and changes in working rules of sleeping-car conductors employed by the Pullman Co. and represented by the Order of Sleeping-Car Conductors were granted by the Railroad Labor Board in decision No. 2052, effective December 1, 1923. The new scale of wages is as follows:

RATES OF WAGES PER MONTH FOR SLEEPING-CAR CONDUCTORS, EFFECTIVE DECEMBER 1, 1923.

pg. 152, 153).	Rates of	wages.
Term of service.	Per month.	Per hour,
First Year Over 1 year to 2 years Over 2 years to 5 years Over 5 years to 10 years Over 10 years to 15 years Over 15 years	\$150.00 160.00 467.50 175.00 180.00 485.00	Cents. 62 66 69 72 75 77

The amended rules govern rest periods, seniority, and grievances, and provide for punitive overtime rates of pay for time in excess of 270 hours per month.

### Wrecking Service.

Wrecking-service employees should be paid continuous time from time called until returned to home station for all time working, waiting, or traveling, at the rate of straight time for straight-time hours and overtime for hours recognized at home stations as overtime hours, the board declared in interpretation No. 4 to decision No. 222, dated November 8, 1923.

Liability of New Management to Apply Decisions Made During Receivership.

BY AN order dated January 7, 1924, the Railroad Labor Board has reopened dockets Nos. 1319 and 2150, involving disputes between the Toledo, St. Louis & Western Railroad and the Order of Railroad Telegraphers. These cases involve disputes growing out of the abolition of express commissions by the carrier and the abrogation of the working rules of the employees as embraced in the agreement negotiated by the union. These disputes were disposed of by the board while the carrier was in the hands of a receiver. The road has now been consolidated with the New York, Chicago & St. Louis Railroad Co. and the question of the liability of the present management to apply these decisions has arisen.

The carrier stated its readiness to meet a committee of employees of the district involved to undertake to reach an agreement with respect to matters in controversy, but would not negotiate with the system representative of the union. Further, the carrier contended that it was not answerable for the abolition of express commissions or the abrogation of the agreement by the Toledo, St. Louis & Western, because the action of the carrier was taken by the receiver and authorized and approved by a Federal court, and in any event those

matters were closed by the orders and decrees terminating the receivership, which orders and decrees are binding alike upon the present ownership of the carrier, its employees, and the Railroad Labor Board.

The union took the position that the application of the decisions was incumbent on the carrier under its new ownership and asked that the board declare the carrier a violator of decisions 1367 and 1789

(dockets 1319 and 2150).

The board held that the decision should be reopened for the determination of the question now in dispute—i. e., the liability of the present ownership of the carrier to apply said decisions—and ordered the parties to confer in regard to this controversy; if an impasse had already been reached, the board directed that the question be argued orally before it by both parties.

It was further directed that the parties proceed on or before January 21, 1924, to confer and endeavor in good faith to negotiate an agreement covering all such questions as to rules and rates of pay and express commissions as may be in dispute, and in case of disagreement that the matters be submitted to the board in accordance

with the law.

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The board held that the negotiations should be conducted for the employees by their system and district representatives and in case the matter could not be agreed upon, the dispute as to who shall execute the agreement should be submitted to the board.

### Contract Work.

A N instance of what the board considers bona fide contracting out of work may be noted in its decision No. 2131, dated February 5, 1924. In this instance the railroad involved—the Southern Pacific lines in Texas and Louisiana—let the contract for the operation of a gravel pit which it owned, and the train and engine crews handling transportation work in connection with the operation of the pit were considered to be in the employ of the contractor and not subject to rules relative to seniority and wage rates which applied to such employees in the service of the carrier. The brotherhoods asked that employees manning the trains used in such operations be chosen from seniority rosters of the carrier and paid the rates prevailing on the carriers' property for such service.

In the opinion of the board the evidence showed that the contract in this case was entered into in good faith and not merely for the purpose of evading compliance with conditions established by agreements or decisions of the board. The contractor was previously engaged in the gravel business and had not been on the carrier's pay roll. The carrier owns other gravel pits which have been operated by contractors, in one instance at least as far back as 1911. On the other hand, the carrier has at various times operated its own pits and purchased gravel from pits not owned by it. The request of the

employees was denied.

In another case (see decision No. 2080, dated January 19, 1924) the Brotherhood of Railway and Steamship Clerks, Freight Handlers, Express and Station Employees protested the contracting by the

For decisions re "illegal" contract work, see MONTHLY LABOR REVIEW for June, 1922, pp. 107-112, and January, 1923, pp. 104-106.

Lehigh Valley Railroad of freight-handling work on its piers in New York and Brooklyn. The board in this case declared the contract illegal and ordered that the employees suffering a reduction in wages under this contract should be reimbursed for their losses. The carrier was directed to reinstate all employees involved in this dispute, with seniority rights unimpaired, upon the application of the interested employees or their representatives.

# Night Work.

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THE discontinuance of the bonus hour to certain classes of employees engaged in night work—i. e., nine hours pay for eight hours work, which existed prior and during Federal control—is ordered on six western roads by decision No. 2071, dated January 3, 1924. To this decision are appended a dissenting opinion by a labor member and a supporting opinion by the chairman of the board.

# Election of Employee Representatives.

# Oregon-Washington Railroad & Navigation Co.

A DISPUTE arose between the Oregon-Washington Railroad & Navigation Co. and the Clerical Employees' Association and the Brotherhood of Railway and Steamship Clerks as to the right of certain supervisory employees to vote in an election to determine whether the clerical employees of the company should be represented by the Clerical Employees' Association, an association of company employees, or by the Brotherhood of Railway and Steamship Clerks. The board ruled in decision No. 2083 that since the Interstate Commerce Commission had not designated the classes of employees involved as officials they are covered by the transportation act, and the board is not authorized to exclude such employees from the application of the act. The general freight foremen and division fuel supervisors therefore, the board decided, should be permitted to participate in the ballot, and also the car distributors involved, provided they are not required to telegraph in the performance of their duties.

The claim of the Brotherhood of Railway and Steamship Clerks that the election conducted by the Oregon-Washington Railroad & Navigation Co. to determine who should represent the clerical employees was illegal and did not express the opinion of the majority, was upheld by the board in decision No. 2022, dated November 17, 1923.

The question as to whether the craft union or the company union should represent the employees arose again in the dispute between the American Train Dispatchers' Association and the Oregon-Washington Railroad & Navigation Co. In this case the train dispatchers' association contended that the carrier offered the individual train dispatchers an increase in pay and certain advantageous changes in working conditions on condition that they choose the company association to represent them instead of the union, and asked that the board require that the ballot submitted to the dispatchers be accompanied by an assurance that the conditions which the carrier promised should be given to the train dispatchers regardless of the result of the election. The board decided that it had no authority

to order either party to submit or refrain from submitting any proposal in conference. The labor members of the board dissented from this opinion. (Decision No. 2077, January 11, 1924.)

### Great Northern Railroad.

In addendum No. 1 to decision No. 1947, issued December 11, 1923, the board directed that an election to determine who shall represent a class of employees shall be held as ordered even though one or more of the interested parties may decline to participate therein.

In this case there was a dispute between the Switchmen's Union and the Brotherhood of Railroad Trainmen as to which organization represented the yardmen on the Great Northern Railroad. The carrier declined to take any steps to help hold the election unless both organizations took part and contended that the controversy

was entirely between the two organizations.

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The switchmen's union was unable to get a satisfactory reply from the trainmen's organization and submitted the case to the Railroad Labor Board. In the opinion of the board the position of the carrier was fallacious. The carrier, the switchmen, trainmen, and any other organization entitled to represent the yardmen were ordered to confer on or before January 1, 1924, to arrange details of the proposed ballot.

If the representatives of any of the organizations comprising employees of this class decline to participate in the conference, the carrier and other representatives of employees of this class will proceed to hold the election as ordered. If the carrier declines to assist in holding the election, the representatives of yardmen who desire to participate in the election will arrange the details of the ballot and election, giving due notice to any other organization comprised of employees of this class of the date of the election, endeavoring to furnish ballots to all eligible voters, giving full publicity to the right of all eligible yardmen to cast their ballots, and taking all necessary precautions for a fair election and a correct and unquestioned count of the votes.

Such an election must be held in accordance with the procedure outlined by the board, however.

### Atchison, Topeka, and Santa Fe Railway System.

The board declared illegal an election held by the Atchison, Topeka & Santa Fe Railway system, in which the American Train Dispatchers' Association refused to participate, and ordered that another election be held and the votes be tabulated for the system as a whole instead of by each operating division thereof as the carrier had conducted the election. (Decision No. 1990.)

### Pennsylvania Railroad System.

Decisions Nos. 2079 and 2130 of the Railroad Labor Board, recently issued, set forth the details of a dispute between the Pennsylvania Railroad and the Order of Railroad Telegraphers, which in brief are as follows:

In June, 1921, the carrier distributed a ballot for election, under their employee representation plan, of representatives of the telegraphers. This ballot was protested by the telegraphers because it did not give them the right to vote for the Order of Railroad Telegraphers. The employees were left no choice but to participate in the election and forfeit their right to vote for their organization. They knew that if they wrote the name of their organization on the ballots they would be thrown out by the carrier and not counted, and that a rump committee would be set up by the carrier to represent the employees, although such committee may have received but a small fraction of the eligible vote. This was what happened to the shop crafts under identical conditions, when approximately 10 per cent of the eligible vote was permitted to name the representatives of the shopmen by throwing out the ballots of all those who voted for the Federated Shop Crafts.4

The telegraphers therefore voted for the committeemen of their organization, but as individuals without organization designation. In every instance the local committee of the union was elected by an overwhelming majority. This committee of individuals represented the telegraphic employees in such conferences as occurred. In the rules dispute which led to decision No. 1233 it was agreed between the parties before proceeding with the hearing that the dispute was between the Pennsylvania Railroad System and its employees in the

telegraphic department.

About January 1, 1923, another election was announced. The telegraphers again protested the form of ballot distributed by the carrier, and again elected the representatives of the Order of Railroad Telegraphers—the same committee in fact. After this second election the telegraphers sought to have the management recognize them as duly organized representatives of the Order of Railroad Telegraphers. The management refused and the Order of Railroad Telegraphers submitted the issue to the Railroad Labor Board for decision. The board held, in decision No. 2079, that the questions involved were within the jurisdiction of the board, but that the submission was improperly made—that the committee representing the employees must appear in the character and capacity in which they were elected, i. e., as an employees' committee and not as representatives of the Order of Railroad Telegraphers.

The employees therefore amended their submission and asked that the committee be allowed to present their contentions to the board

as originally submitted.

The employees' position was as follows:

First. That both the elections of 1921 and 1923 were in contravention of the transportation act, 1920, and in violation of the right of the employees:

(a) Because the employees were deprived of any voice in the formulation of

the plans for their own election;

(b) Because the carrier, the adversary with whom negotiations must be conducted, dictated the form and method of the representation of the employees;
(c) Because the carrier refused to place or permit on the ballots the name of the Order of Railroad Telegraphers, in which an overwhelming majority of the

employees concerned hold membership; and

(d) Because the carrier arbitrarily excluded from participation in the election

large numbers of employees rightfully entitled to vote therein.

Second. That the carrier is now putting out ballots and instructions for the holding of another election February 8, 1924, which is subject to all the foregoing objections urged against the said former elections and which has been planned and announced by the carrier without any conference or consultation with the employees' committee recognized by the carrier as the proper representatives of the employees, and all this notwithstanding the fact that material amendments have been made by the carrier to the rules and regulations under which its said former elections were held.

The carrier took the position:

First. That there is no dispute between the Order of Railroad Telegraphers and the carrier. This contention was sustained in decision No. 2079.

<sup>4</sup> Decision No. 2130, Docket No. 3446, p. 3.

Second. That the committee of employees which submit the dispute herein were chosen in the elections of 1921 and 1923, and that they are therefore stopped from attacking the validity of said elections.

Third. That the election to be held February 8, 1924, is merely for the purpose of electing successors to those committeemen whose terms have expired in

accordance with the plan under which the former elections were held.

Fourth. That there has been no conference between the carrier and employees as to the election to be held February 8, 1924, and no demand therefore, and consequently a dispute involving the matter can not be submitted to the board.

The opinion of the board states:

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The earrier concedes that the committeemen so elected are the authorized representatives of the employees, but ingeniously insists that they can not attack the very elections in which they were chosen.

Under the facts and circumstances of this case, the carrier's contention is unsound and to sustain it would permit the carrier to profit by its own wrongful

conduct and would close to the employees their only avenue of redress.

If the elections were illegally held—and they were—the employees have the right to raise and present the question through their representatives. The representatives of the employees are the committeemen who have made this submission to the board. They are contending, in substance and effect, that while they are the legal representatives of the employees, they would not be if the carrier had not excluded the name of the Order of Railroad Telegraphers from the ballots. They are alleging that the vast majority of the employees desired to vote for the Order of Railroad Telegraphers and were denied the right by the carrier, and that they, as the committee chosen to represent the employees, are voicing the will of said majority in bringing this dispute to the board. tainly a protest of such a grave character, affecting the rights of such a large number of employees, can not be strangled by a technicality.

It is manifestly fallacious to say that the employees are estopped from attacking an election because of their participation in it, when such participation was

to all intents and purposes compulsory.

As to the election to be held February 8, 1924, no conference and new dispute was necessary. It is merely another act of the carrier in a series of acts already involved in a pending submission, and the amended submission is a sufficient compliance with the statute.

The board decided that the elections of 1921 and 1923 and the proposed election of 1924 were in violation of the transportation act, and directed that an election be held by secret ballot in accordance with procedure outlined by the board in previous decisions, in which the employees will be given opportunity to vote for individuals or for their organization. In case the carrier refuses to participate in such an election the board authorizes the employees to conduct the election in accordance with procedure outlined by the board and to report the result to the carrier and to the board.

### Kansas City Terminal Railway Co.

In decision No. 2019, dated November 9, 1923, the board decided that the majority of legal votes cast in an election determines who shall represent the employees. The carrier in this case, the Kansas City Terminal Railway Co., contended that a vote of at least 51 per cent of the total number of employees was necessary to determine an election; the organization, the Brotherhood of Railway and Steamship Clerks, held that a majority of legal votes cast should determine the issue.

Coverage of Trade-Union Agreement.

N decision 1994, involving the Maine Central Railroad Co. and the Portland Terminal Co., the board restated the position taken in former decisions that employees of a class or craft come under the terms of the agreements negotiated by the organization representing a majority of such craft or class, in this case, the Brotherhood of Station Employees, regardless of membership or nonmembership in the organization holding the agreement for the particular craft or

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# Violations of Board's Decisions.5

DECISIONS Nos. 2084, 2054, and 2074 declare that the Pennsylvania Railroad system and the Erie Railroad have violated the decisions of the Railroad Labor Board and are "knowingly and willfully persisting in such violation in contempt of the opinion expressed by the board and in contravention of the public welfare."

# Bituminous Coal Industry-Interstate Agreement.

THE joint conference of operators and miners of Illinois, Indiana, Ohio, and western Pennsylvania, representing coal operators in the central bituminous field and the United Mine Workers of America, reaffirmed the existing contracts 6 and extended their provisions both as to wages and conditions of work for a period of three years from April, 1924, to March 31, 1927. This settlement becomes the basis for contracts in outlying fields.

# Fur Workers-New York City.

THE two-year contract between the International Fur Workers Union and the Associated Fur Manufacturers of New York City, which expired on January 31, 1924,7 has been renewed with certain important changes relating to wages, apprenticeship, contract work, unemployment, etc. The expiring contract provided for a committee to study and report on the question of apprenticeship. The new agreement makes the following provisions on this issue.

1. 10 per cent limitation per shop for a year.

2. None in shops of less than eight; one in each additional ten; in no case more than five to a shop.

3. Period, six months.
4. Minimum wages as follows: Apprentices drawn from trades other than the fur trade shall be paid not less shan \$15 per week during the first two months of apprenticeship. After that period gradual increases to be granted the apprentice. The difference between the starting wage of the apprentice and the minimum scale of his particular branch and kind of work shall be fairly distributed during the balance of the apprenticeship period, in order to enable the apprentice to receive his full minimum wage at the completion of his apprenticeship. Apprentices drawn for the cutting and squaring branch from any of the three other branches of the trade or for any other branch as operating, wages shall be from \$25 per week during period of apprenticeship.

5. Proportionate increases during period of apprenticeship.

6. Committee on immediate action shall have supervision over employment of apprentices and shall in each case act so as to carry out the spirit of these regula-

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<sup>&</sup>lt;sup>6</sup> For other instances of violation, by carriers and by employees, see statement of the chairman of the board printed on pp. 61 to 64 of this issue of the Monthly Labor Review.

<sup>6</sup> Agreement for 1923 was noted in the Monthly Labor Review for March, 1923, p. 56.

<sup>7</sup> The terms of the expiring contract were noted in the Monthly Labor Review for March, 1922, p.

7. In cases of shops employing more than two apprentices a committee shall distribute or apportion the remaining apprentices as far as possible in proportion to the different crafts in the shop.

8. The number of apprentices shall at all times be in proportion to the number of workers in the shops as provided in these regulations.

9. Provisions in regard to classes of workers as affecting wages applies to

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10. The question of apprentices in shops employing less than eight workers (six or seven) shall be under the jurisdiction of the committee on immediate action.

The weekly minimum wage scale was increased \$4 per week for all classes except second class finishers, who received a \$3 increase. The revised scale is as follows:

F	er week.
Cutters, first class	\$46
Cutters, second class	40
Operators, first class	38
Operators, second class	
Operators, second class, females	32
Nailers, first class	
Nailers, second class	
Finishers, first class	
Finishers, second class	28

The establishment of an unemployment fund is agreed upon in principle, and a committee is created to prepare a tentative plan for such a fund. Experts are to be engaged to work out the plan which is to be ready within one year. In the meantime claims by the union that an emergency affecting unemployment prevails in the industry will be referred to the conference committee to establish whether or not such emergency exists. Upon discovery of the existence of such an emergency, ways and means for mitigating these conditions are to be devised. In the consideration of and action on such a matter, the chairman of the conference committee is to act only in the capacity of mediator.

Members of the employers' association agree to give preference in the distribution of work to workers employed directly by them, but they may give work to outside contractors, provided such contractors employ at least five workers and have a union contract, the provisions of which are complied with. The names of contractors so employed must be filed with the conference committee. Penalties

are provided in case of violations of these provisions.

Overtime work may be permitted between the second Monday of

September and the fourth Monday of December.

Provisions for the division of work during slack periods could not be agreed upon and were left for decision by the impartial chairman of the conference committee.

# Garment Industry—Cleveland.

# Change in Unemployment Fund Rules.8

THE Board of Referees for the Cleveland Garment Industry decided on November 18, 1923, to reduce for the year 1924 the period of guaranteed employment from 41 to 40 weeks, with the provision that the unemployment allowance should be 50 per cent of the minimum wage instead of 663 per cent as heretofore. At the same

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<sup>&</sup>lt;sup>8</sup> For statement of rules governing the plan see Monthly Labor Review, April, 1922, pp. 139, 140; August, 1922, pp. 135-138.

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time employers were given more latitude in the matter of employing casual workers. Heretofore new employees passed through a two-weeks probationary period before acquiring the status of regular employees. In view of the general conditions obtaining throughout the industry the board decided that each employer should be permitted to employ for a period not exceeding four weeks, once in each of the two seasons, additional workers not to exceed 20 per cent of the workers in any one department. To take advantage of this provision, each employer must in each instance advise the union as to the date of the beginning of the period and as to the employment of individual workers.

To "facilitate the practical necessities of production," the board recommended that outside shops otherwise qualified to take work, but in arrears on account of payments to the unemployment fund, be listed as suspended shops. Any manufacturer may place work at such shops upon meeting his obligation to the unemployment fund.

In the opinion of the board, the Cleveland plan has met with marked success, due in large part to the cooperation of the workers and manufacturers. In a little over 10 months of the year 1923, only about one-twentieth of the reserve fund was actually paid out in unemployment benefits.

# Retail Clerks-Butte, Mont.

AN agreement unusual in scope and content covering all classes of employees in the merchandising industry of Butte, Mont., became effective last October. It was signed by representatives of the Butte Clerks' Union and the Silver Bow Employers' Association, and includes 110 stores. The agreement follows in full:

(1) All persons employed by the members of the Silver Bow Employers' Association in the following work: Department managers, sales people, window trimmers, mail order departments, floor walkers, milliners, cashiers, bundle wrappers, street salesmen, collectors, advertising writers, warehousemen, receiving and shipping clerks, order counter employees, retail deliverymen and all employees not under the jurisdiction of other unions, excepting bookkeepers and stenographers who do such work exclusively, shall be members of the Butte Clerks'-Union in good standing or shall become members of the said union within 30 days after securing employment.

(2) No person not eligible to membership in the clerks' union shall be employed

at any time without written permission from the Butte Clerks' Union.

(3) The establishments shall be divided into two classes, viz: Textile stores and foodstuff stores.

(4) A foodstuff store shall be one which is engaged in the sale of foodstuffs.(5) All stores not classified as foodstuff stores shall be considered textile stores.

### HOURS.

- (6) Eight hours of labor and one hour for lunch shall constitute a day's work in all textile stores.
- (7) Nine hours for male members and eight hours for female members and one hour for lunch shall constitute a day's work in foodstuff stores.
- (8) Any person employed for less than a day shall receive a full day's pay; in other words, any person who is allowed to report for duty on any day shall receive a full day's pay, except that overtime may be worked on Sundays and holidays
- (9) In foodstuff stores four hours shall be allowed, or its equivalent, for each week in which Monday forenoon closing is in effect in textile stores. Foodstuff establishments shall open for business not earlier than 8 o'clock a. m. and close at 6 p. m.

(10) Exclusive hardware houses may open at 8.30 a. m. and close at 5.30 p. m. (11) Textile establishments shall open not earlier than 9 a. m. and close at 6 p. m., except that all textile stores shall open at 1 p. m. the first Monday after July 4, and continue to close every Monday forenoon and until 1 p. m. during the months of July and August. It is understood that if the clerks' union fails to enforce this half-holiday provision upon any store employing any of its members, after written notification through the Silver Bow Employers' Association, the particular group to which the store belongs shall be exempt from its provisions.

### HOLIDAY CLOSING HOURS.

(12) The closing hours before Christmas shall be as follows:

Foodstuff stores may remain open until 9 p. m. on the three working days prior to Christmas

Wholesale houses, no additional time.

Textile houses may remain open until 9 p. m. on the six days prior to Christmas. Work performed during this period to the time of closing shall not be construed to be overtime.

### HOLIDAYS.

(13) All establishments shall be closed all day as follows: All Sundays, Christmas Day, New Year's Day, Washington's Birthday, Decoration Day, Fourth of July, Commercial Day (third Wednesday in August), Labor Day, Columbus Day, and Thanksgiving Day. When any of the above holidays fall on Sunday the following Monday shall be observed.

(14) Wholesale houses shall close at 1 p. m. on every Saturday. Work may All work after 1 p. m. start one hour earlier in these establishments on this day.

shall be paid as overtime.

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(15) Members shall be paid for the above-mentioned holidays.

(16) The scale of wages shall be as follows: Textile employees, men, \$28.75 per week, or \$124.60 per month. Textile employees, women, \$20 per week, \$86.65 per month. Jewelers, watchmakers, engravers, opticians, \$36 per week. Carpet layers, \$5 per day when employed less than one week. Lady carpet sewers, \$25 per week. Lady fitters in alteration departments, \$25 per week. Delivery men, \$28.75 per week.

Delivery men (single wagon), \$16.45 per week, \$71.30 per month.

(17) Foodstuff employees: Men, \$31.65 per week, or \$137.15 per month. Women, \$20 per week, or \$86.65 per month. Delivery men, \$31.65 per week, or \$137.15 per month.

Delivery men (single wagon), \$18.10 per week, or \$78.45 per month.

### OVERTIME.

(18) All work in excess of the time specified as a day's work or on Sunday or holidays as specified shall be paid as overtime at the rate of 70 cents per hour for men and 50 cents for women and apprentices.

(19) Watchmakers, jewelers, engravers, and opticians, \$1 per hour.
(20) Carpet layers, 75 cents per hour.
(21) Single drivers, 50 cents per hour.

(22) Overtime due to the members of the said union shall be paid to the business agent of the said union.

### APPRENTICES.

(23a) One mechanical apprentice shall be permitted to each jewelry shop without the restrictions which apply to other apprentices.

(23) One apprentice shall be allowed for each four members of the union. Any person 18 years of age starting an apprenticeship shall be paid the second year's apprentice scale; those 19 years, the third year's scale. Cash or errand Cash or errand

boys or girls shall not be under the jurisdiction of the clerks' union.

(24) All apprentices shall file application with the clerks' union and secure a working card before commencing employment, and after each year's employment shall be advanced to the next scale, if retained.

# (25) WEEKLY AND MONTHLY WAGE SCALE FOR APPRENTICES, BY SEX. Weekly scale.

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Sex.	Age 17, first year.	Age 18, second year.	Age 19, third year.	Three and one-half years.	Fourth year.	Four and one- half years.	
GirlsBoys Boys (foodstuff stores)	\$8. 35 8. 35 8. 35	\$11. 25 13. 45 14. 15	\$14. 15 18. 55 19. 95	\$17.05	\$20. 00 23. 65 25. 75	\$28.7 31.6	
Monthly 8	cale.		STA				
Girls	\$36. 20 36. 20 36. 20	\$48. 75 54. 95 61. 30	\$61.30 80.40 86.45	\$73. 90	\$86, 65 102, 50 111, 60	\$124.6 137.1	

### CIGAR AND FRUIT STORES.

(26) The closing hours shall not apply to such establishments, but the employees shall be under the jurisdiction of the said union and other rules apply.

### WINDOW TRIMMERS.

(27) Window trimmers shall be allowed to trim windows after working hours, provided overtime is paid or the trimmer allowed the same time off the next day.

### ALTERATION DEPARTMENT.

(28) No piecework shall be allowed in this department, or any work leased out. Any seamstress temporarily acting as a fitter shall receive fitter's wages. No apprentices shall be allowed in this department. Before commencing work in this department, new employees shall first secure a permit from the clerks' union.

### GENERAL RULES.

(29) The business agent of the clerks' union shall be permitted to interview any employee during business hours, provided such employee is not engaged in waiting upon a customer. He shall also collect all dues, fees, fines, and assessments due from members of the said union, and all overtime due to the said members through the office of each establishment, but the office of the Silver Bow Employers' Association shall not be required to enforce the collection of dues, fines, and assessments.

dues, fines, and assessments.

(30) All misunderstandings or disagreements over the interpretation of this agreement shall be submitted to a joint committee for adjudication, the number

agreement shall be submitted to a joint committee for adjudication, the number of representatives on such committee to be mutually agreeable.

(31) This agreement shall be in full force and effect on and after the 16th day of October, 1923, and shall terminate on the 1st day of May, 1925; provided, that if neither party gives notice during the month of April, 1925, of a desire to change the provision, the agreement shall automatically remain in full force and effect for one year thereafter.

AGREEMENT BETWEEN SILVER BOW EMPLOYERS' ASSOCIATION AND THE BUTTE CLERKS' UNION, RELATIVE TO DRUGGISTS, AND THE MEMBERSHIP OF THE SAID UNION EMPLOYED THEREIN.

All persons employed in any store conducted by a member of the Silver Bow Employers' Association, except stenographers and bookkeepers who do such work exclusively, shall be or become members of the Butte Clerks' Union within 30 days from the commencement of said employment.

30 days from the commencement of said employment.

Nine hours' work, the hours to run consecutively with only one meal hour, where possible, shall constitute a day's work for all male employees.

On holidays specified by the agreement between the employers' association and the clerks' union, four and one-half hours shall constitute a day's work.

Every other Sunday shall be allowed off.
Forty-eight hours per week for girls employed as soda dispensers, cigar clerks, cashiers, etc., shall be considered union hours. All work in excess of this shall

be paid for at the rate of 50 cents per hour, in the manner prescribed by the general agreement with the employers' association. All work in excess of the prescribed work as above for male employees, shall be paid for at the rate of time and one-half in the manner provided by the general agreement.

The minimum wage for pharmacists registered in Montana shall be \$42.50

per week after six months' service in the State of Montana.

The first assistant for the first six month's service, \$28.90 per week; the second six month's service, \$31.50. After 12 month's service, said assistant to receive \$42.50 per week if registered in Montana.

The minimum wage for second assistant to be \$20 per week.

Any store may employ one additional clerk in addition to the first and second assistants under the terms of the general agreement.

Male soda dispensers to receive the minimum wage of \$26.25 per week.

All girl employees engaged as cashiers, cigar clerks, soda dispensers, etc., to receive the minimum wage of \$20 per week.

The first assistant is any person who is registered in some other State than Mon-

tana or a registered assistant in the State of Montana.

The second assistant is any person not registered in any State, but who is engaged in the sale or dispensing of drugs or drug sundries.

Not more than one first assistant is allowed to a store at one time. Only one second assistant shall be allowed to a store. However, one first and one second assistant may be allowed in one store at the same time.

The shifts shall rotate as to permit each member to enjoy the benefits of the

early shift after having worked on the late night shift.

No employee shall suffer a reduction in salary on account of the operation of this agreement. This applies to all employees, who are allowed and earn commissions, bonuses, or other remuneration in addition to their salaries.

All conditions not specified by this agreement shall be governed by the general agreement between the clerks' union and the employers' association of which

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This agreement shall be in full force and effect on and after the 16th day of October, 1923, and shall terminate on the first day of May, 1925; provided that if neither party gives notice during the month of April, 1925, of a desire to change the provisions, the agreement shall automatically remain in full force and effect for one year thereafter.

The Butte Clerks' Union recognizes the unfair competitive conditions at present prevailing in the foodstuff line and agrees to take effective steps to establish and maintain fair competitive conditions for the protection of their food-

stuff employees and foodstuff stores observing union conditions.

# Collective Agreement in Agriculture in Denmark.

IT WAS stated in Arbejdsgiveren (organ of the Danish Employers' Association, Copenhagen) for February 8, 1924 (p. 44), that the Land and Forest Owners Employers' Association had been carrying on negotiations with the Agricultural Workers' Union with a view to the extension of their collective agreement which was subject to notice of termination May 1. The agreement in force had been entered into April 23, 1922, and extended January 30, 1923, until 1924, with a supplementary agreement November 13, 1923, granting to certain agricultural workers a 10 per cent wage increase. This increase was not, however, included in contracts between the beet raisers and their workers.

On January 31 the parties agreed to an extension of the agreement until May 1, 1925, on the basis of the previous agreement, including the 10 per cent wage increase. At the same time minimum wage rates were agreed upon for tending and pulling sugar beets, sugar fodder beets, and turnips. The agreement has also been adopted by the two associations not affiliated with the Danish Employers' Association, namely, the Land and Forest Owners' Association in Maribo County and the Land and Forest Owners' Association in Langeland.

# EMPLOYMENT AND UNEMPLOYMENT.

Employment in Selected Industries in February, 1924.

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MPLOYMENT in manufacturing industries in the United States increased 1.2 per cent in February—this being the first general increase since June, 1923—as shown by figures presented herewith by the United States Department of Labor through the Bureau of Labor Statistics. These unweighted figures are based on reports from 8,222 establishments in 52 industries, covering 2,693,636 employees whose total earnings during one week in February were \$72,552,483. The same establishments in January reported 2,661,233 employees and total pay rolls of \$67,970,982. Therefore, in addition to the increase in employment, there was an increase of 6.7 per cent in pay roll totals and an increase of 5.4 per cent in per capita earnings.

The end of the January inventory season accounts for a part of these increases, although the reports received show a decided and general upward tendency both in employment and in full-time and

full-capacity operation.

Dit.

Comparing data from identical establishments for January and February, increases in employment in February are shown in 35 of

the 52 industries and increases in earnings in 45 industries.

Sugar refining, owing to a general resumption of work, led all the industries both in increased employment and increased earnings, the increases being over 40 per cent in each case. The stove industry gained 15 per cent in employment and 25 per cent in pay-roll totals. The stamped ware, carriage, dyeing and finishing textiles, women's clothing, iron and steel, and glass industries also show large increases in both items, while the fertilizer industry gained over 12 per cent in employment, and the automobile industry gained 25 per cent in pay-roll totals.

The rubber boot and shoe and the slaughtering and meat-packing industries show the greatest losses both in employment and earnings, although the losses were considerably smaller than the gains in other

industries noted above.

Considering the industries by groups, increases are shown in every group both in employment and earnings with the exception of a very slight decrease in employment in the paper and printing group and a decrease of 1.2 per cent in pay-roll totals in the tobacco group. Stamped and enameled ware and the iron and steel and lumber groups made large gains both in employment and earnings, although the largest increase in earnings, 17 per cent, was in the vehicle group.

For convenient reference the latest figures available relating to all employees on Class I railroads, excluding executives and officials, drawn from Interstate Commerce reports, are given at the foot of the

first and second tables.

COMPARISON OF EMPLOYMENT IN IDENTICAL ESTABLISHMENTS DURING ONE WEEK EACH IN JANUARY AND FEBRUARY, 1924.

Ang Alema amounder	Es-	Number o	on pay roll.	Per	Amount	Amount of pay roll.		
Industry.	lish- ments.	January, 1924.	February, 1924.	of change.	January, 1924.	February, 1924.	cent of change.	
Food and kindred products	877	181, 394	182, 357	+0.5	84, 477, 256	\$4, 533, 904	+1.	
Slaughtering and meat packing	86	94, 133	90, 354	-4.0	2, 298, 563	2, 221, 042	-3.	
Confectionery	126	17, 085	16, 827	-1.5	317, 527	312, 969	-1.	
Ice cream	56 287	3, 642 15, 309	3, 664 15, 441	+0.6	109, 693 309, 452	112, 269 400, 403	+2. +0.	
Baking	309	43, 757	45, 519	+4.0	1, 125, 795	1, 161, 278	+3.	
Sugar refining, not including beet	13	7, 468	10, 552	TITIS 3				
Sugar Textiles and their products	1,586	539, 345	545, 181			325, 943 11, 149, 788	+44.	
Cotton goods	293	181, 863	181, 200	-0.4	3, 236, 099	3, 167, 332	-2.	
Hosiery and knit goods	236 216	77, 526 53, 609	78, 638 54, 747	+1.4 +2.1	1, 290, 552 1, 078, 112	1, 359, 322 1, 155, 797	+5. +7.	
Woolen and worsted goods	184	70, 457	70, 289	-0.2	1, 603, 489	1, 644, 608	+2	
Woolen and worsted goods	20	20, 052	20, 234	+0.9	524, 202	566, 992	+8.	
Dyeing and finishing textiles	75	26, 671	28, 224	+5.8	619, 233	665, 794	+7.	
Clothing, men's	209 97	55, 774 24, 806	57, 521 24, 521	+3.1	1, 416, 581 358, 065	1, 462, 122	+3.	
Clothing, women's	177	16, 133	17, 027	+5.5	436, 427	360, 682 481, 731	+0	
Millinery and lace goods	79	12, 454	12, 780	+2.6	279, 446	285, 408	+2	
ron and steel and their products	1,420	555, 220	569,026	+2.5	15, 939, 808	17, 016, 053	+6	
Iron and steel	216 147	264, 110	276, 414	+4.7	7, 794, 020	8, 619, 428	+10	
Structural ironwork Foundry and macnine-shop prod-	141	16, 668	16, 669	(1)	447, 437	460, 410	+2	
ucts	624	169, 959	163, 278	-1.6	4, 729, 586	4, 735, 154	+0	
Hardware		29, 903	30, 742	+2.8	730, 050	750, 798	+2	
Machine tools	178	24, 379	24, 785	+1.7	702, 417	720, 391	+2	
Steam fittings and steam and hot-	130	39, 663	40, 361	110	1 140 004	1 049 559	1.0	
water heating apparatusStoves	84	14, 538	16, 777	+1.8	1, 148, 094 388, 199	1, 243, 557 486, 315	+8 +25	
umber and its remanufactures		188, 037	192, 269	+2.3	3, 947, 586	4, 222, 682	+7	
Lumber, sawmills	436	109, 327	111, 387	+1.9	2, 162, 092	2, 301, 537	+6	
Lumber, millwork	225	30, 471	31, 387	+3.0	712, 811	758, 799	+6	
Furnitureeather and its finished products	317 340	48, 239 121, 197	49, 495 121, 780	+2.6 +0.5	1, 072, 683 2, 807, 029	1, 162, 346 2, 836, 617	+8 +1	
Leather	128	26, 736	26, 857	+0.5	682, 294	692, 180	+1	
Boots and shoes, not including		20,100	20,00	, 0.0	002, 201	002, 200	1.4	
rubber	212	94, 461	94, 923	+0.5	2, 124, 735	2, 144, 437	+0	
aper and printing	760 185	145, 175 51, 981	145, 049 52, 443	$-0.1 \\ +0.9$	4, 418, 035	1, 408, 005	+0	
Paper boxes	154	19, 018	18, 980	-0.2	1, 350, 210 402, 651	404, 807	+0	
Printing, book and job.	238	30, 855	30, 456	-1.3	1,044, 186	1,014,988	-2	
Printing, newspapers	183	43, 321	43, 163	-0.4	1,620,988	1, 628, 212	+	
hemicals and allied products	248 89	69, 227 18, 226	70, 429	+1.7 $-0.2$	1, 999, 361	2, 056, 666 487, 369	+1	
Fertilizers	110	7, 829	18, 185 8, 814	+12.6	480, 808 148, 605	154, 975	I	
Petroleum refining	49	43, 172	43, 430	+0.6	1, 369, 948	1, 414, 322	1 +3	
one, clay, and glass products		94, 098	95, 150	+1.1	2, 457, 539	2, 583, 713	1 +	
Cement	73	23, 215	22, 975	-1.0	646, 173	672, 773	1	
Brick and tile Pottery	348 51	24, 462 12, 176	24, 054 12, 305	-1.7 + 1.1	606, 277 328, 034	612, 350 347, 581	+	
Ulass	131	34, 245	35, 816	+4.6	877, 055	951,009	+8	
etal products other than iron and								
steel	42	13, 051	14, 163	+8.5	303, 741	354, 353	+10	
Stamped and enameled ware	42 210	13, 051	14, 163	+8.5	303, 741	354, 353	+16	
Tobacco: Chewing and smoking	33	36, 504 3, 942	36, 776 4, 092	+0.7	676, 390 62, 930	668, 610 67, 448	+	
Tobacco: Cigars and cigarettes	177	32, 562	32, 684	+0.4	613, 460	601, 162	-5	
chicles for land transportation	783	499, 954	502, 308	+0.5	13, 996, 968	16, 426, 845	+17	
Automobiles	225	326, 369	333, 425	+2.2	9, 247, 454	11, 559, 835	+2	
Carriages and wagons	43	2, 714	2, 919	+7.6	64, 723	73, 801	+19	
railroad.	184	16, 534	16, 106	-2.6	485, 484	473, 580	-:	
Car building and repairing, steam-		20,001	10, 100		100, 101	110,000		
railroad	331	154, 337	149, 858	-2.9	4, 199, 307	4, 319, 629	+	
scellaneous industries	375	218, 031	219, 155	+0.5	6, 105, 068	6, 247, 240	+	
Agricultural implements Electrical machinery, apparatus,	100	24, 700	25, 198	+2.0	666, 069	688, 763	+	
and supplies	122	96, 622	95, 623	-1.0	2, 716, 390	2, 727, 955	+	
Planos and organs	37	7, 463	7, 323	-1.9	209, 597	213, 846	+	
Rubber boots and shoes	10	18, 709	17, 863	-4.5	457, 288	407, 392	-10	
Automobile tires	73	44, 639	46, 282	+3.7	1, 334, 169	1, 433, 416	+7	
Shipbuilding, steel	33	25, 898	26, 866	+3.7	721, 555	775, 868	+7	
ailroads, Class I {Nov. 15, 1923 Dec. 15, 1923		1.89	3, 081		2 \$949	626, 817		
MILITER A TANK T TANKET A TOP A COMMON OR OF THE PARTY OF		1,00	7, 325	-5.6	2 \$227.		-	

 $<sup>^1</sup>$  Increase less than one-tenth of 1 per cent.  $^2$  Amount of pay roll for one month.

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Comparison of Employment in February, 1924, and February, 1923.

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REPORTS are available from 4,689 establishments in 43 industries for a comparison of employment and earnings between February, 1924, and February, 1923. These reports from identical establishments in each year show an increase in the 12-month interval of 221 employees, the numbers being 1,940,810 in 1924 and 1,940,589 in 1923. Total earnings and per capita earnings, however, both increased 8.6 per cent. There were gains in the number of employees in only 17 of the 43 industries, while 31 industries show an increase in pay-roll totals in 1924. The automobile industry led in increased employment in the year with 18 per cent and in pay-roll totals with a gain of 29 per cent. The pottery, electrical machinery, iron and steel, baking, and piano industries also show substantial gains in both items, while the carriage, automobile tire, steam-railroad car building and repairing, foundry, and shoe industries show considerable losses in both items. The fertilizer and leather industries each show losses in employment of about 11 per cent, but with slight changes in earnings.

Considering the industries by groups, the lumber, paper, food, stone, and iron and steel groups are shown to have gained in both employment and earnings during the 12-month period, while the chemical and stamped-ware groups gained in earnings alone. The leather group had 8.1 per cent fewer employees in February, 1924, than in the corresponding month of 1923, and earnings had fallen off 6.7 per cent. The textile group shows a loss of 4.7 per cent in employment with a

decrease of 1.3 per cent in earnings.

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COMPARISON OF EMPLOYMENT IN IDENTICAL ESTABLISHMENTS DURING ONE WEEK EACH IN FEBRUARY, 1923, AND FEBRUARY, 1924.

	Es-	Number	on pay roll.	rer	Amount	of pay roll.	Per
Industry.	tab- lish- ments.	February,	February, 1924.	cent of change.	February,	February, 1924.	cent of change
Food and Kindred Products	349	124, 179	126, 887	+2.2	\$2, 856, 808	\$3, 188, 411	+11.
Slaughtering and meat packing	82	88, 701	89, 460	+0.9	1, 972, 191	2, 198, 052	+-11.
Flour	90	7, 628	7, 696	+0.9	187, 399	202, 288	+7.
Baking	1,075	27, 850 428, 648	29, 731	+6.8 $-4.7$	697, 218	788, 071	+13.
Cotton goods	221	154, 423	408, 561 145, 147	-6.0	8, 568, 563 2, 601, 457	8, 458, 426	-1.
Hosiery and knit goods	141	48, 384	47, 554	-1.7	836, 521	2, 517, 927 862, 943	-3. +3.
Silk goods	110	37, 192	36, 048	-3.1	747, 883	773, 122	+3.
Woolen and worsted goods	151	60, 508	57, 004	-5.8	1, 352, 875	1, 346, 573	-0.
Carnets	19	16,075	16, 402	+2.0	417, 012	455, 744	+9.
Diveing and finishing textiles.	30	17, 385	16, 152	-7.1	395, 159	375, 620	-4.
Clothing, men's	156	49, 421	47, 775	-3.3	1, 326, 286	1, 266, 213	-4.
Shirts and collars	84 119	25, 376	23, 089	-9.0	396, 718	338, 385	-7.
Millinery and lace goods	44	13, 203 6, 681	12, 835 6, 555	-2.8 $-1.9$	386, 229	372, 419	-3.
Iron and steel and their products	489	366, 840	367, 512	+0.2	138, 423 10, 308, 269	149, 480 11, 110, 820	+8. +7.
Iron and steel	170	227, 598	243, 798	+7.1	6, 485, 224	7, 550, 488	+16.
Foundry and machine-shop pro-				,	0, 100, 111	1,000,100	1 200
ducts	224	106, 154	90, 408	-14.8	3, 018, 965	2, 663, 014	-11.
Hardware	29	20, 180	20, 636	+2.3	461, 159	523, 107	+13.
Stoves	66	12, 908	12, 670	-1.8	342, 921	374, 211	+9.
Lumber and its remanufactures	554	115, 411	118, 044	+2.3	2, 354, 737	2, 663, 593	+13.
Lumber, sawmills Lumber, millwork	219 173	62, 304 23, 924	64, 336 24, 941	+3.3	1, 142, 381	1, 336, 216	+17.
	162	29, 183	28, 767	+4.3 $-1.4$	551, 562 660, 794	623, 872 703, 505	+13. +6.
Furniture	281	118, 118	108, 708	-8.1	2, 663, 949	2, 486, 760	-6.
Leather	122	28, 674	25, 676	-10.5	680, 039	663, 243	-2.
Boots and shoes, not including					,		-
rubber	159	87, 444	81, 032	-7.3	1, 983, 910	1, 823, 517	-8.
Paper and printing	590	120, 091	122, 863	+2.3	3, 474, 721	3, 777, 324	+8.
Paper and pulp	176	50, 095	49, 780	-0.6	1, 241, 687	1, 337, 721	+7.
Printing, book and job	138	14, 464 20, 291	14, 839 20, 774	+2.6 +2.4	283, 284 674, 883	307, 297 713, 541	+8. +5.
Printing, newspapers		35, 241	37, 470	+6.3	1, 274, 867	1, 418, 765	+11.
Chemicals and allied products.	221	62, 270	59, 134	-5.0	1, 677, 243	1, 723, 039	+2.
Chemicals		14, 932	14, 954	+0.1	360, 264	396, 662	+10.
Fertilizers.	104	9, 393	8, 342	-11.2	143, 415	146, 455	+2.
Petroleum refining	39	37, 945	35, 838	-5.6	1, 173, 564	1, 179, 922	+0.
tone, clay, and glass products	333	53, 105	54, 272	+2.2	1, 263, 713	1, 483, 036	+17.
Brick and tile	201	14,748	15, 169	+2.9	336, 959	403, 589	+19.
PotteryGlass	85	10, 704 27, 653	11, 946 27, 157	+11.6 $-1.8$	268, 340 658, 414	337, 809 741, 638	+25. +12.
fetal products, other than iron and	00	21,000	21,101	-1.0	000, 111	741,000	712
steel	29	11, 263	10, 665	-5.3	252, 110	278, 449	+10.
Stamped and ename ed ware	29	11, 263	10, 665	-5.3	252, 110	278, 449	+10.
obacco manufactures	160	31, 657	31, 257	-1.3	556, 148	570, 367	+2.
Tobacco: Chewing and smoking	12	1,923	1,878	-2.3	30, 745	33, 262	+8.
Tobacco: Cigars and cigarettes	148	29, 734	29, 379	-1.2	525, 403	537, 105	+2.
ehicles for land transportation	346	351, 834	379, 771		10, 671, 804		+19.
Carriages and wagons	178	250, 320	294, 374	+17. 0 -17. 2	7, 937, 176	10, 268, 552	
Car building and repairing, steam-	32	2, 511	2,078	-11.2	56, 718	52, 067	-8.
railroad	136	99,003	83, 319	-15.8	2, 677, 910	2, 447, 071	-8.
liscellaneous industries	262	159, 173	155, 136	-2.5	4, 172, 477	4, 520, 556	+8.
Agricultural implements	57	22, 087	20, 031	-9.3	552, 241	566, 617	+2.
Electrical machinery, apparatus,		100					
and supplies	94	69, 960	76, 539	+9.4	1, 731, 902	2, 185, 051	+26.
Pianos and organs	24	5, 830	6, 168	+5.8	151,736	181, 951	+19.
Automobile tires Shipbuilding, steel	63	46, 260	38, 741	-16.3	1, 343, 720	1, 190, 167	-11. +1.
mpounding, seed	24	15, 036	13, 657	-9.2	392, 878,	396, 770	71.
ailroads, Class I { Dec. 15, 1922		1, 772	553		1 \$240	964, 277	
ailroads, Class I Dec. 15, 1922			7, 325	+0.3		595, 296	-5.

Amount of pay roll for one month.

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# Per Capita Earnings.

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PER CAPITA earnings increased in February as compared with January in 44 of the 52 industries here considered. The automobile industry, owing to a large increase in full-time operation, shows a gain of over 22 per cent in per capita earnings, and the stove industry follows with an increase of 8.6 per cent. The only decreases of considerable size were in the fertilizer and rubber-boot industries, and these were 7.4 per cent and 6.7 per cent, respectively.

and these were 7.4 per cent and 6.7 per cent, respectively.

Comparing per capita earnings in February, 1924, with those in February, 1923, increases are shown in 40 of the 43 industries for which data are available. The largest increases were 16.7 per cent in the stamped-ware industry, 16.5 per cent in the brick and tile industry, and 15 per cent each in the electrical machinery and fertilizer industries.

COMPARISON OF PER CAPITA EARNINGS: FEBRUARY, 1924, WITH JANUARY, 1924, AND JANUARY, 1923.

Industry.	change ary, 19	cent of Febru- 24, com- with—	Iudustry.	Per cent of change, February, 1924, con pared with-		
	Jan- uary, 1924.	February, 1923.		Jan- uary, 1924.	February, 1923.	
Automobiles	+22.4	+10.0	Shirts and collars	+1.9	+1.	
Stoves	+8.6	+11.2	Foundry and machine-shop prod-			
Stamped and enameled ware	+7.5	+16.7	ucts	+1.8	4-3	
Carpets	+7.2	+7.1	Ice cream.	+1.7		
Steam fittings, etc 1	+6.4		Chemicals	+1.6		
Carriages and wagons	+6.0	+10.9	Dyeing and finishing textiles	+1.6	+2	
Car building and repairing, steam-	1 1 1 1 1 1		Electrical machinery, apparatus,	1	1	
railroad	+5.9	+8.6	and supplies	+1.5	+15	
Iron and steel	+5.7		Agricultural implements	+1.3	-13	
Furniture		+8.0	Leather	+1.0		
Cement	+5.2	1	Machine tools	+0.9		
Silk goods		+6.6	Paper boxes	+0.8		
Pottery	+4.9	+12.8	Printing, newspapers	+0.8	+1	
Clothing, women's	+4.6	-0.8	Slaughtering and meat packing		-1-10	
Lumber, sawmills		+13. 2	Boots and shoes, not including	40.1	7.20	
Pianos and organs		+13.3	rubber	+0.4	-0	
Hosiery and knit goods		+5.0	Car building and repairing, elec-	70. 1		
Blass		+14.7	tric-railroad	+0.1		
Shipbuilding, steel	+3.7	+11.2	Clothing, men's			
Automobile tires	+3.6	+5.7	Confectioners	+0.1		
Lumber, millwork	+3.4	+8.5	Confectionery	70.1	4-10	
Paper and pulp		+8.4	Millinery and lace goods	(3) -0.5	+10	
Pobacco: Chewing and smoking.	73.0	+10.8	Flows	-0. 5		
Structural ironwork	7-3. 9	710.8		-0.6		
	+2.9		Baking	-0.9	+5	
Woolen and worsted goods	+2.8	+5.6	Printing, book and job	-1.5	+3	
Brick and tile	+2.7	+16.5			+3	
Petroleum refining	+2.6	+6.4	Tobacco: Cigars and cigarettes	-2.4		
Sugar refining, not including beet		100	Rubber boots and shoes			
sugar	+2.0		Fertilizers	-7.4	+10	

<sup>1</sup> And steam and hot-water heating apparatus.

# Full-time and Part-time Operation.

A TOTAL of 6,879 establishments in the 52 industries reported as to their operating time in February. Of these, 75 per cent were on a full-time schedule, 22 per cent on a part-time schedule, and 3 per cent were idle. This is an increase of 6 per cent in full-time operation as compared with the report for January, and, while

<sup>&</sup>lt;sup>2</sup> Increase of less than one-tenth of 1 per cent.

it affected three-fourths of the 52 industries, it was most pronounced in seasonal industries (such as clothing, automobiles, and fertilizers), in the iron and steel group of industries, and in the pottery, glass,

silk, and carpet industries.

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+10.9 +10.0 +7.9 +5.9 +3.3 +3.0

-15.0

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ule, ullhile Of the establishments working full-time, 49 per cent also reported full-capacity operation, 32 per cent reported part-capacity operation, and 19 per cent failed to report as to capacity operation. This represents an increase as compared with January of 2 per cent in the proportion of establishments reporting full-capacity operation.

FULL AND PART TIME OPERATION IN MANUFACTURING ESTABLISHMENTS IN FEBRUARY, 1924.

	1		shmen rting.	ts		Establishments reporting.				
Industry.	To-tal.	full	Per cent operating part time.	Per cent idle.	Industry.	To-		Per cent operating part time.	Per cent idle.	
Food and kindred prod-					Paper and printing:					
ucts:					Paper and pulp	144	66	29	5	
Slaughtering and meat		0			Paper boxes	125	73	27		
packing	65	91	8	1	Printing, book and job.	205	93	7		
Confectionery	101	69	29		Printing, newspapers	138	100			
Ice cream	43	86	9	5	Chemicals and allied				1	
Flour	248	36	63	2	products:					
Baking	258	91	9		Chemicals	64	85	11	2	
Sugar refining, not in-			1		Fertilizers	103	46	50	1 5	
cluding beet sugar Textiles and their prod- ucts:	9	78	11	-11	Petroleum refining Stone clay and glass products:	42	83	17		
	279	70	29	1	Cement	50	76	18		
Cotton goods Hosiery and knit goods	174	71	27	2	Brick and tile	282	59	22	15	
	184	71	29	-	Pottery	48	98	2		
Woolen and worsted	164	76	24		Glass_ Metal products other than	116	82	15	3	
goods	15	87	13		iron and steel:					
Carpets Dyeing and finishing	70	70	30		Stamped and enameled	31	81	19		
clathing mon's	151	74	25	1	Tobacco manufactures:	91	01	10		
Clothing, men's	61	82	15	3	Tobacco, chewing and					
Shirts and collars	111	84	12	5		- 99	76	21	2	
Clothing, women's Millinery and lace	61	77	20	3	Tobacco, cigars and cigarettes	124	60	35		
Iron and steel and their products:	OI	1 "	20	0	Vehicles for land trans- portation:	121	00	30	11111	
Iron and steel	187	62	29	9	Automobiles	193	80	17	1 2	
Structural ironwork Foundry and machine-	130	82	18		Carriages and wagons Car building and re-	39	64	36		
shop products	545	76	23	(1)	pairing, electric-rail-			1	1	
Hardware	40	80	20		road	164	95	5		
Machine tools Steam fittings and	162	86	12	1	Car building and re- pairing, steam-rail-					
steam and hot-water	****		1		road	290	66	33	1	
heating apparatus	122	86	12	2	Miscellaneous industries:			+		
Stoves	80	66	30	4	Agricultural imple-			000		
Lumber and its reman- ufactures:			-		Electrical machinery,	88	74	22	1	
Lumber, sawmills	399	74	20	6	apparatus, and sup-	101	01	0		
Lumber, millwork	185	83	15	2	plies	101	91	9		
Furniture	265	82	17	1	Pianos and organs	28	96	4		
Leather and its finished					Rubber boots and shoes		20	80		
products:	0-	0.0	4-		Automobile tires	59		37	1	
Leather Boots and shoes, not	97	81	15	3	Shipbuilding, steel	27	96	4		
including rubber	174	72	26	1				1		

<sup>1</sup> Less than one-half of 1 per cent.

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The following table shows in detail the full-time reports of one half the industries:

	Est	ablish	ments ull-tim	oper- e.	egtiorner e les did des reg (Co. milio	Establishments operating full-time.				
Industry.	And full capac- ity.	And part capacity.	And not reporting as to capacity operation.	Total.	Industry.	And full capac- ity.	And part capacity.	And not re- porting as to capacity operation.	Tota	
Flour	43	31	15	89	Paper and pulp	73	9	13	9	
Cotton goods	126	32	37	195	Paper boxes	43	31	17	9	
Hosiery and knit goods	69	39	16	124	Book and job printing	79	61	50	19	
Silk goods Woolen and worsted	49	75	7	131	Fertilizers	12	28	7	4	
goods	74	56	5	125	Cement	28	8	2	1	
Men's clothing	57	33	22	1123		105 25	37	24	16	
Women's clothing	44	17	32	93	Pottery	38	14 34	8	-	
Iron and steel	44	49	23	116	Cigars and cigarettes	26	27	23	1	
Foundry and machine-	3.4	10	20	110	Automobiles	78	43	21		
shop products	155	201	60	416	Steam-railroad ca. build-	10	40	34	1:	
Machine tools	26	86	28	140	ing and repairing	116	42	34		
Lumber, sawmills	227	30	40	297	Agricultural implements	116	26	25	1	
Furniture	119	55	44	218	Electrical machinery, ap-	14	20	25		
Leather	21	39	19	79	paratus, and supplies	31	31	30		
Boots and shoes	48	56	22	126	paratus, and supplies	01	91	30	1	

# Wage Changes.

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DURING the month ending February 15, wage-rate increases were reported by 45 establishments in 21 of the 52 industries, while decreases in wage rates were reported by 14 establishments in 12 industries. These changes all affected relatively small numbers of employees and indicate no general trend. Both increases and decreases in rates averaged 10 per cent, the increases affecting 29 per cent of the employees in the establishments concerned, while the decreases affected 45 per cent of the employees in the establishments concerned. The combined total of all employees affected, 10,090, is 0.4 per cent only of the total number of employees in February in all establishments reporting in the 52 industries.

### WAGE ADJUSTMENT OCCURRING BETWEEN JANUARY 15 AND FEBRUARY 15, 1924,

		ablish-	A mon	at of in-	Employees affected.				
CONTRACTOR OF THE PROPERTY	me	ents.		ase.			ent of oyees.		
Industry.1	Total number reporting.	ber re-	Range.	Average.	Total number.	In establishments reporting increases.	In all estab- lish- ments report- ing.		
Food and kindred products:			Per cent.	Per cent.					
Slaughtering and meat packing	. 86		6	6.0	143	8	(2)		
Flour	287	1	10	10.0	19	100	(2)		
Baking Textiles and their products:	309	1	10	10.0	12	100	(2)		
Cotton goods	293	(3)	10	10.0					
Silk goods.  Dyeing and finishing textiles.	216 75	(8)	10	10.0	174	100	(2)		
Clothing, women's	177	1	10-20	15. 0	50	94	(2)		
Millinery and lace goods	79	1	8	8.0	6	35	(2)		
ron and steel and their products:				0.0		00	(-)		
Iron and steel	216	1	14.6	14.6	1,501	31	1		
Foundry and machine-shop products	624	6	2, 5-10	6. 0	397	13	(2)		
Machine tools	178	2	5-7	5. 6	20	47	(2)		
Stoves	84	4	7.9-25	8.5	929	64	6		
umber and its remanufactures:	-2		Allerg &						
Lumber, sawmills	436	63	2-20	3.0	106	13	(2)		
Lumber, millwork		7 1	10	10.0	55	46	(2)		
Furniture	317	3	1-9	5.4	37	10	(2)		
eather and its finished products:									
Leather.	128		10	10.0	5	25	(3)		
Boots and shoes, not including rubber	212	(b)							
Paper and printing: Printing, book and job	000		P 000	1	010	-			
Printing, newspapers	238 183	7 5	5-20 3, 6-12, 1		210	37	1		
hemicals and allied products:	100	9	0,0-12,1	6. 4	461	42	1		
Fertilizers	110	10 1	25	25. 0	120	94	1		
tone, clay, and glass products:	110		20	20.0	120	0.4			
Glass	131	1	20	20, 0	50	23	(1)		
bacco manufactures:						20	()		
Tobacco: Chewing and smoking	33	1	8	8.0	19	38	(2)		
ehicles for land transportation:						-	.,		
Automobiles	225	(11)							
Carriages and wagons	43	1	10	10.0	8	100	(2)		
Car building and repairing, steam-rail-									
road	331	(12)							
fiscellaneous industries:	100	/145							
Agricultural implements	100	(13)							
Electrical machinery, apparatus, and			* **	0.0	05	0.0	400		
suppliesAutomobile tires	122 73	(14)	5-10	8.6	95	30	(2)		

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<sup>1</sup> The 24 industries for which no wage changes were reported are omitted from this table.
2 Less than one-half of 1 per cent.
3 One establishment decreased the rates of its 554 employees 10 per cent.
4 Also, one establishment decreased the rates of 62 of its 133 employees 2 per cent.
5 One establishment decreased the rates of 60 of its 116 employees 10 per cent.
6 Also, one establishment decreased the rates of 438 of its 487 employees 10 per cent.
7 Also, one establishment decreased the rates of its 25 employees 20 per cent.
8 Also, one establishment decreased the rates of its 300 employees 10 per cent.
9 Two establishments decreased the rates of their 222 employees 16 per cent.
10 Also, one establishment decreased the rates of 48 of its 90 employees 12.5 per cent.
11 One establishment decreased the rates of 1,500 of its 5,540 employees 10 per cent.
12 One establishment decreased the rates of 1,829 of its 5,153 employees 10 per cent.
13 Two establishments decreased the rates of 608 of their 674 employees 10 per cent.
14 One establishment decreased the rates of 27 of its 179 employees 6 per cent.

# Index of Employment in Manufacturing Industries.

THE Bureau of Labor Statistics has published monthly volume of employment reports for various manufacturing industries since November, 1915, beginning with 13 industries, which were continued to July, 1922, when 29 additional industries were incorporated in the monthly report. The number of industries was gradually increased during the succeeding 11 months until in June, 1923, the total had reached 52, which number of industries has been continued to date. Confectionery and ice cream were carried as one industry from April to October, 1923, but since November they have appeared as separate industries, and their totals have been separated for the seven earlier months for which combined totals were published. During the period November, 1915, to June, 1922, the report each month included from 234 to 690 establishments in 13 industries, while the enlarged series began in July, 1922, with 2,595 establishments in 42 industries and the current February report is for 8,222 establishments in 52 industries.

The Bureau of Labor Statistics is herewith presenting an index of employment for each of the 52 industries now embraced in this monthly report, for as much of the period July, 1922, to February, 1924, as there are data available in each industry, together with 12 group indexes and a general index, each of which is an average of the weighted relatives of the separate industries included therein. For this purpose the monthly average of the year 1923 is used as the base.

or 100 per cent.

This base was selected for two reasons, first, the average of employment during the months of 1923 was neither extremely high nor extremely low, and, second, the bureau's representation in each industry had reached a comparatively satisfactory status. bureau's aim has been to secure in each industry a sufficiently large number of reporting establishments to guarantee for each report approximately 40 per cent of the employees in the industry in each State in 1919 as recorded by the Census of Manufactures. summation of this design brings the geographical distribution of employees in the several industries reported to an equitable basis.

It is understood, of course, that this study is designed primarily to show conditions in industries which are of the greatest importance to the United States as a whole. It therefore does not necessarily reflect fully all changes in total employment in every section of the country, owing to the fact that some purely local industries of great weight to their respective communities may in the aggregate of employment in the United States fall below the total which is considered necessary to bring an industry into this study.

The weights used in combining the various index numbers for individual industries into the 12 group indexes and into the final general index represent the number of wage earners in the respective

industries in 1919.

### INDEX OF EMPLOYMENT IN MANUFACTURING INDUSTRIES.

[Monthly average, 1923=100.]

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20 CO			Food and kindred products.								Food and kindred products.			iles and roducts.
Month and year.	General index.	Group index.	Slaugh- tering and meat packing.	Confec-		Flour.	Baking.	Sugar refining (cane).	Group index.	Cotton goods.				
1922.														
July	87	89	88			92			90	84				
August	88	90	87			99			92	88				
September	91	92	88			107	93		95	92				
October	93	94	90			108	94		97	96				
November	94	97	95			110	95		98	102				
December	97	98	100			107	93		100	104				
1923.	1100													
January	98	96	99			99	91		102	105				
February	100	95	95			98	95		104	105				
March	102	96	. 93			98	98		105	106				
April	102	95	93	91	78	96	97	120	104	106				
May	102	96	96	87	100	94	97	117	103	196				
June	102	99	99	89	116	93	101	111	101	104				
July	100	100	101	- 86	118	95	106	104	98	- 96				
August	100	102	102	93	111	107	104	91	97	94				
September	100	105	103	110	104	107	104	94	98	95				
October	99	107	104	121	95	108	106	96	96	92				
November	99	106	107	120	89	104	101	95	95	94				
December	97	102	108	104	88	100	100	71	98	96				
1924.				134										
anuary	95	98	105	90	86	98	98	73	96	93				
February	97	99	101	89	87	99	102	104	97	93				

Textiles and	4 bode	producte	Concluded
A CALUES BUILD	LESCORE.	AR ORGANICES-	COMPRIME.

Month and year.	Hoisery and knit goods.	Silk goods.	Woolen and worsted goods.	Carpets.	Dyeing and finishing textiles.	Cloth- ing, men's.	Shirts and collars.	Cloth- ing, women's.	Milli- nery and lace goods.
July	96	90	76	94	86	104	100	97	8/
August	100	91	77	94	87	99	98	104	. 9
September	97	91	86	95	97	99	98	104	96
October	99	93	90	1 97	101	98	97	104	100
November	99	97	95	99	104	96	99	95	98
December	100	99	97	100	107	101	101	93	100
1923.									
January	100	99	99	101	106	102	102	103	10
February	101	101	100	99	105	105	103	108	109
March	103	102	101	100	106	107	104	111	110
April	103	103	102	100	106	100	104	107	100
May	103	102	102	100	105	99	102	100	100
June	102	101	102	100	101	101	100	93	97
July	98	99	100	101	101	101	99	97	97
August	98	100	99	100	95	101	94	98	90
September	97	99	98	100	97	100	96	102	96
October	98	99	98	99	92	97	99	100	90
November	99	98	99	100	92	93	99	92	89
December	98	98	99	99	94	94	98	89	91
1924.	-	0.00		-	0.1			90	
January	98	97	97	99	84	99	96	98	90
February	99	99	97	100	89	102	95	104	90

### INDEX OF EMPLOYMENT IN MANUFACTURING INDUSTRIES-Continued.

		,	Iron an	d steel a	nd their	products	e prin		rema	er and its nufac- res.
Month and year.	Group index.	Iron and steel.	Struc- tural iron- work.	Foundry and machine-shop products.	Hard-ware.	Ma- chine tools.	Steam-fittings and steam and hot-water heating apparatus.	Stoves.	Group index.	Lumber, saw-mills,
1922.		11-111				111				
July August September October November December	79 79 83 86 89 93	87 86 85 89 91 93		72 72 79 83 87 91	86 88 89 91 94 97			87 95 104 103 106 106	97 97 96 96 96 95	99 99 98 97 95 93
1923. January February March April May June July August September October November December	94 97 100 101 102 104 102 102 102 100 98	95 97 99 99 101 104 101 103 102 102 100 96	95 100 98 104 104 102 100 97	93 97 100 102 163 104 104 104 102 99 97 93	98 99 101 103 101 101 102 102 100 100 97 97	110 109 106 82 101 100 96 96	103 103 102 102 101 100 96 93	101 103 105 104 103 103 94 95 98 99 99	94 96 97 100 101 102 103 102 103 101 101	93 95 96 99 101 103 104 103 104 102 101 98
January February	93 94	99 104	95 95	89 87	98 100	92 94	95 96	80 93	95 97	94 96
-0.00	Lumber remanufa Conch	ctures-		r and its products			Paper	and pri	nting.	-
Month and year.	Lumber, mill- work.	Furni-	Group index.	Leather.	Boots and shoes, not in- cluding rubber.	Group index.	Paper and pulp.	Paper boxes.	Printing, book and job.	Printing, news-papers.
July	97 99 95 95 96 95	88 90 91 94 97 100	94 97 98 98 100 101	95 98 100 100 103 103	94 97 98 98 99 101	93 93 94 95 96	90 90 91 95 96 97	85 88 91 94 97 98	97 95 97 96 95 100	95 95 96 96 98 100
1923. January February March April May June July August September October November December	95 96 99 101 103 103 103 100 99	99 101 101 101 100 99 99 100 101 99	104 105 105 103 100 97 96 99 98 98 98	105 106 106 104 100 99 97 96 96 97 94	104 105 105 103 100 97 97 99 99 99 98 98	98 98 100 100 100 100 100 100 101 102 102	96 97 102 104 103 104 101 102 99 98 97 98	94 94 98 97 97 98 100 101 103 106 107	100 100 101 100 98 99 100 98 100 100 102 103	99 99 99 99 100 99 98 98 100 102 103
JanuaryFebruary	98 101	96 99	97 97	95 95	97 97	102 101	97 97	100 100	104 103	104

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July Augu Septe Octob Nove Dece Janua Febr Marc April May June July Augu Septe Octol Nove Dece

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July. Augu Septe Octo Nove Dece

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# INDEX OF EMPLOYMENT IN MANUFACTURING INDUSTRIES-Continued.

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	Cher	nicals an	d allied	produc	ts.		8	tone	e, clay,	and glas	s product	3.
Month and year.	Group index.	Chemicals.	Fertil ers.	leu	etro- m re- ing.	Gr	oup lex.	Ce	ment.	Brick and tile.	Pottery.	Glass.
July August September October November December	92	81 81 93 96	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	94 09 08 01 99 87	90 90 90 90 94 95		99 100 100 95 92 92			102 102 100 99 96 91	116 120 122 84 52 67	91 90 91 96 102
January February March April May June July August September October November December	98 102 105 104 102 99 98 99 100 99 98	100 100 90	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	97 14 30 21 89 77 83 90 02 03 99 96	95 96 98 103 107 106 105 104 101 98 96 93	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	92 93 96 101 104 105 103 102 101 100 98		95 98 99 102 101 102 101 102 101	84 84 91 102 106 108 109 109 108 104 100 95	92 95 96 97 99 101 97 104 104 105	108 100 102 102 103 106 96 99 95 95
1924. January February	97 99	100		97	92 93		94 95		98 98	89 88	106 107	92 96
	uets	other iron iteel.	Tobacc	eo man	ufactu	res.		Vel	hicles fo	or land to	ansportat	ion.
Month and year.	Group index.	Stamped and enameled ware.	Group index.	To- bacco chew- ing an smok- ing.	ba cig d a: ci	o- cco, gars and ga- tes.	Gro		Auto- mo- biles.	Car- riages and wagons	repair-	Car build- ing and repair- ing, steam rail- road.
July	66 86 89 93 101 99	66 86 89 93 101 99	106 104 106 108 107 106	110 104 110 108 106 100		105 104 106 108 107 107		77 75 81 86 90 93	87 87 87 82 81 83	99 97 96 94		70 67 77 88 95 99
1923. January February March April May June July August September October November December	105 107 111 109 107 103 101 93 92 92 89 92	105 107 111 109 107 103 101 93 92 92 89 92	103 102 103 100 100 100 98 94 99 100 101	103 103 96 96 102 104 104 98 99 102		103 102 104 100 100 100 97 94 99 100 101		96 97 100 101 103 101 102 101 102 101 97	87 94 99 103 104 104 101 100 101 102 103	100 104 107 113 112 109 102 100 93 86	94 99 101 103 102 102	101 98 100 98 99 102 101 103 102 102 100 94
1924. January February	94 102	94 102	96 97	104 108		95 96		96 96	107 110		92 90	89 87

INDEX OF EMPLOYMENT IN MANUFACTURING INDUSTRIES-Concluded

caston edt			Miscella	aneous indu	80											
Month and year.	Group index.	Agricul- tural im- plements.	Electrical machinery, apparatus, and supplies.	Planos and organs.	boots and		building									
1922.			9 11	1 1 1 1 1 1 1	(4)											
July	82	82	80	80	1.20	105										
August	87	83	83													
September	89	79	84													
October	90	82	85													
November	92	87	88	94		106										
December	98	99	91	96		109										
1923.	3 -		25 13		18- 4											
January	100	. 97	93	95		113	1									
February	102	109	96	96		118	î									
March	107	114	98	99		119	1									
April	107	114	100	98	106	117	î									
May	105	111	100	98	108	116	i									
June	104	106	99	99	108	109	1									
July	100	98	101	100	105	98	i									
August	96	94	101	101	98	84										
September	94	90	102	103	92	80										
October	94	. 87	102	103	93	79										
November	96	89	104	104	95	81										
December	95	90	103	105	94	87										
1924.	7 20	155														
January	95	94	103	104	90	90										
February	97	96	102	102	86	94										

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MONTHLY LABOR REVIEW.

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# Employment and Earnings of Railroad Employees, January, 1924, and January and December, 1923.

THE following tables show the number of employees and the earnings in various occupations among railroad employees in January, 1924, in comparison with employment and earnings in December, 1923, and January, 1923.

The figures are for Class I roads—that is, all roads having operating

revenues of \$1,000,000 a year and over.

COMPARISON OF EMPLOYMENT AND EARNINGS OF RAILROAD EMPLOYEES IN JANUARY, 1924, WITH THOSE OF JANUARY AND DECEMBER, 1923.

From monthly reports of Interstate Commerce Commission. As data for only the more important occupations are shown separately, the group totals are not the sum of the items under the respective groups.]

300 211 31	Profess	ional, clerical,	and general	maintenance o	way and stru	ictures.					
Month and year.	Clerks.	Stenograph- ers and typists-	Total for group.	Laborers (extra gang and work train).	Track and roadway section laborers.	Total for group.					
		Numb	er of employee	s at middle of	month.						
January, 1923 December, 1923 January, 1924	167, 780 172, 324 169, 323	24, 712 25, 468 25, 363	280, 175 287, 201 283, 485	35, 114 47, 306 39, 716	171, 363 178, 754 170, 858	326, 783 355, 766 336, 150					
JIN RI	SELL I TO		Total e	arnings.							
January, 1923 December, 1923 January, 1924	\$21, 013, 980 21, 727, 440 21, 670, 569	\$2, 900, 003 3, 035, 209 3, 066, 530	\$36, 943, 092 38, 224, 512 38, 181, 721	\$2, 589, 461 3, 280, 322 2, 820, 766	\$12, 274, 376 12, 214, 033 12, 329, 032	\$29, 955, 984 31, 273, 631 31, 044, 630					
- Hatteress	relifiqu	Maint	enance of equ	ipment and st	ores.						
	Carmen.	Machinists.	Skilled trade helpers.	Laborers (shops, engine houses, power plants, and stores).	Common laborers (shops, engine houses, power plants, and stores).	Total for group.					
	RULEI	Numb	er of employee	s at middle of	nonth.						
January, 1923 December, 1923 January, 1924	132, 311 127, 069 123, 537	66, 286 65, 298 64, 612	136, 620 123, 827 121, 267	52, 820 48, 902 49, 165	63, 253 61, 229 61, 079	580, 324 559, 331 551, 859					
	011111		Total e	arnings.							
January, 1923 December, 1923 January, 1924	\$19, 409, 896 16, 902, 697 17, 350, 917	\$11, 958, 617 9, 505, 053 16, 167, 737	\$15, 940, 584 12, 495, 665 13, 073, 363	\$5, 217, 408 4, 689, 811 4, 838, 634	\$5, 205, 802 4, 754, 659 4, 941, 814	\$78, 755, 708 67, 913, 745 70, 632, 854					
Dimit II	W 21 . F . F	Transpo	ortation other	than train and	yard.						
	Station agents.	Telegra- phers, tele- phoners and towermen.	Truckers (stations, warehouses, and plat- forms).	Crossing and bridge flagmen and gatemen.	Total for group.	Transporta- tion (yard masters, switch ten- ders, and hostlers).					
1 1 1 1 1 1 1 1 1 1 1 1	65(1,1,5)	Numb	er of employee	s at middle of 1	month.						
January, 1923 December, 1923 January, 1924	31, 560 31, 662 31, 506	27, 507 27, 435 27, 094	38, 884 41, 051 36, 903	21, 682 22, 969 22, 892	207, 924 213, 131 206, 341	26, 130 25, 893 25, 747					
The state of the s	Total earnings.										
January, 1923 December, 1923 January, 1924	\$4, 738, 961 4, 725, 149 4, 788, 127	\$3, 995, 218 3, 988, 036 3, 963, 931	\$3, 436, 804 3, 665, 177 3, 383, 118	\$1, 561, 866 1, 715, 297 1, 711, 334	\$24, 594, 358 25, 261, 393 24, 811, 744	\$4, 678, 857 4, 548, 576 4, 566, 714					

[831]

COMPARISON OF EMPLOYMENT AND EARNINGS OF RAILROAD EMPLOYEES IN JANUARY, 1924, WITH THOSE OF JANUARY AND DECEMBER, 1923—Concluded.

		Tr	ansportation, t	rain, and eng	ine.	
Month and year.	Road conductors.	Road brakemen and flagmen.	Yard brake- men and yardmen.	Road engineers and motor- men.	Road firemen and helpers.	Total for group,
having sperating	almor Di	Numb	er of employees	s at middle of	month.	
January, 1923 December, 1923 January, 1924	38, 211 37, 952 36, 972	79, 777 78, 761 77, 061	55, 062 54, 482 53, 553	47, 251 45, 760 44, 913	49, 243 48, 038 47, 346	342, 062 336, 003 330, 057
Committee of the last		127 S179	Total ed	irnings.		
January, 1923 December, 1923 January, 1924	\$9, 203, 831 8, 150, 406 8, 535, 491	\$14, 040, 334 12, 083, 903 12, 709, 847	\$9, 329, 220 8, 511, 439 8, 798, 118	\$12, 715, 171 11, 056, 653 11, 659, 694	\$9, 418, 099 8, 159, 307 8, 624, 584	\$68, 298, 003 60, 373, 439 63, 259, 974

Extent of Operation of Bituminous Coal Mines, February 2 to 23, 1924.

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CONTINUING a series of tables which have appeared in previous numbers of the Monthly Labor Review, the accompanying table shows for a large number of coal mines in the bituminous fields the number of mines closed the entire week and the number working certain classified hours per week from February 2 to February 23, 1924. The number of mines reporting varied each week, and the figures are not given as being a complete presentation of all mines but are believed fairly to represent the conditions as to regularity of work in the bituminous mines of the country. The mines included in this report ordinarily represent from 55 to 60 per cent of the total output of bituminous coal. The figures are based on data furnished the Bureau of Labor Statistics by the United States Geological Survey.

WORKING TIME IN THE BITUMINOUS COAL MINES IN THE UNITED STATES, BY WEEKS, FEBRUARY 2, 1924, TO FEBRUARY 23, 1924.

[The mines included ordinarily represent from 55 to 60 per cent of the total output. Prepared by the Bureau of Labor Statistics from data furnished by the United States Geological Survey.]

				-11	1121	1110			Min	es—	•						
Week min	Num- ber of mines report- ing.	en	Closed entire week.		Working less than 8 hours. Working 8 and less than 16 hours		and than			Working 24 and less than 32 hours.		Working 32 and less than 40 hours.		Working 40 and less than 48 hours.		Working full time of 48 hours or more.	
Achiquited Burg and		No.	Per cent.	No.	Per cent.	No.	Per cent.	No.	Per cent.	No.	Per cent.	No.	Per cent.	No.	Per cent.	No.	Per cent.
1924. Feb. 2 Feb. 9 Feb. 16 Feb. 23	2, 369 2, 400 2, 364 2, 175	719 711	31. 0 30. 0 30. 1 30. 8	39 33 24 25	1.6 1.4 1.0 1.1	114 124 118 151	4.8 5.2 5.0 6.9	284 273	11. 1 11. 8 11. 5 13. 7	350 395	15. 2 14. 6 16. 7 15. 8	348 401 407 379	14. 7 16. 7 17. 2 17. 0		11. 4 11. 4 10. 1 9. 6	239 215 197 111	10.1 9.0 8.3 5.1

# Recent Employment Statistics.

Connecticut.

THE report of the Connecticut Bureau of Labor for the month of January, 1924, on the operations of the five public employment offices in the State is summarized in the table following.

18321

ACTIVITIES OF PUBLIC EMPLOYMENT OFFICES IN CONNECTICUT IN JANUARY, 1924.

Sex.	Applica- tions for	Applica-	Situa- tions			Per cent of applications for help filled.		
	employ- ment.	help.	secured.	Jan., 1924.	Dec., 1923.	Jan., 1924.	Dec., 1923.	
MalesFemales	1, 655 1, 610	1, 216 1, 555	1, 093 1, 390	66. 0 86. 3	71 90. 2	89. 9 89. 4	(¹) (¹)	
Total	3, 265	2,771	2, 483	76.0	87.1	89. 6	93. 7	

Not separately reported.

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THE following figures, showing the percentage changes in volume of employment in Illinois, January, 1924, as compared with December, 1923, are taken from the Labor Bulletin, January and February, 1924, of the department of labor of that State:

PER CENT OF CHANGE IN NUMBER ON PAY ROLLS IN VARIOUS INDUSTRIES IN ILLINOIS FROM DECEMBER, 1923, TO JANUARY, 1924.

		on pay roll lary, 1924.		Persons on pay roll in January, 1924.		
Industry.	Number	Per cent of in- crease (+) or de- crease (-), as com- pared with De- cember, 1923.	Industry.	Number.	Per cent of in- crease (+) or de- crease (-), as com- pared with De- cember, 1923.	
Stone, clay, and glass products Metals, machinery, and conveyances Wood products. Furs and leather goods Chemicals, oils, paints, etc Printing and paper goods Textiles	11, 235 157, 533 16, 493 14, 294 12, 853 17, 295 4, 936	-1.5 -2.5 -3.1 +.5 +2.4 +.5 +1.3	Clothing, millinery, and laundering. Food, beverages, and tobacco. Trade—wholesale and retail. Public utilities Coal mining. Building and contracting All industries	21, 293 45, 122 12, 507 78, 651 20, 588 7, 263 420, 063	+ 2.6 - 3.8 -12.9 - 1.4 + 7.1 -19.3	

lowa.

THE changes in volume of employment in important groups of industries in Iowa in January, 1924, as compared with the December, 1923, figures are indicated in the following tabular statement from the bureau of labor statistics of that State:

COMPARISON OF VOLUME OF EMPLOYMENT IN SPECIFIED INDUSTRIES IN IOWA IN JANUARY, 1924, AND DECEMBER, 1923.

THE RESERVE AND THE RESERVE AN		Number on	pay roll, Jan	uary, 1924.	Per cent of increase (+)
Industry group.	Number of firms reporting.	Males.	Females.	Total.	or decrease (-), January, 1924, as compared with December, 1923.
Food and kindred products  Textiles Iron and steel work Lumber products. Leather products Paper products, printing, and publishing Patent medicines Stone and clay products Tobacco, cigars Railway car shops Various industries	57 32 75 43 14 23 9 33 5	10, 694 830 9, 455 4, 711 635 2, 129 200 2, 901 126 9, 034 4, 669	1, 772 2, 208 364 127 284 998 375 42 305 159 6, 435	12, 466 3, 038 9, 819 4, 838 9119 3, 127 575 2, 943 431 9, 193 11, 104	-2.0 +9.2 +3.9 +1.4 +9.0 -1.4 -3.9 -7.0 +17.7 +4.9 -6.0
Total	367	45, 384	13, 069	58, 453	+0.5

[833]

# Maryland.

THE figures given below, furnished by the commissioner of labor statistics of Maryland, show the percentage differences between the numbers of employees, and between the amounts of pay rolls in January and February, 1924, in various industries in that State:

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Boot Boxe Boxe Brea Cars rai Cloth Conf Copp Cott

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COMPARISON OF EMPLOYMENT IN IDENTICAL ESTABLISHMENTS IN JANUARY AND FEBRUARY, 1924.

Industry.	Number of establishments reporting.	1	Number on pay roll in Febru- ary, 1924.	Per cent of in- crease (+) or decrease (-) as compared with January, 1924.	Amount of pay roll in February, 1924.	Per cen of in- crease (+) or decrease (-) as compare with January 1924.
Charles and the state of the st	4	1 week	528	+9.5	\$10 402 OT	1.
BakeryBeverages and soft drinks		do	193	+7.2	\$10, 403, 07 5, 328, 03	+5.1
Boots and shoes.		do	1, 314	-2.5	23, 359, 65	+11.
Boxes, paper and fancy	9	do	487	+5.9	7, 115, 21	-2
Boxes, wooden	6	do	267	+.8	4, 654, 14	+4.
Brass and bronze	4	do		+2.9	59, 242, 54	-0. +.
Brick, tile		do	782	-12.3	18, 655, 57	+1.1
Brushes	6	do	1, 120	+3.7	21, 951, 77	+3
Canning and preserving	3	do,	264	+65.0	4, 432, 65	+13.
Car building and repairing	3	do	4, 376	-5.0	140, 598, 00	-1.
hemicals	7	do	1, 481	+.1	39, 900, 68	
lothing, men's outer garments	5	do	2, 509	-2.2	62, 741, 49	+2
lothing, women's outer garments	9	do	1, 314	+2.4	18, 479, 64	+5.
Confectionery		do	658	-19.1	10, 176, 03	-1.
Cotton goods	7	do	1,744	-1.8	26, 141, 89	+1.
Fertilizer	8	do	1.095	+9.4	30, 886, 55	-3
food preparations	3	do	112	-5.7	2, 090, 99	+5
Foundry	12	do	1, 212	-2.1	32, 671, 31	-4.
Furniture	9	do	721	7	18, 468, 00	4-5.1
llass	4	do	1, 213	-3.9	25, 716, 38	+1.
ce cream	5	do	341	+2.4	9, 941, 76	+.
eather goods		do	638	-3.5	12, 522, 97	-2
ithographing		do	453	-1.3	13, 326, 78	1-6.
umber and planing	7	do	416	-10.5	10, 113, 72	-9.
Mattresses and spring beds	3	do	86	-2.3	1, 947, 01	-1.
Men's furnishing goods		do	3, 536	+5.7	44, 729, 61	+5.
atent medicines		do	268	+2.7	4, 527, 00	+2
ianos		do	907	-4.4	23, 060. 36	+21.
'lumber's supplies	3	do	920	97	25, 383, 13	-2
rinting	11	do	1,471	4	48, 637. 08	-2.
tubber tire manufacturing	1	month.	2, 550	+14.1	156, 890, 85	+34.
hipbuilding	3	1 week	791	+.5	21, 542, 01	+2
hirts, etc		do	1, 464	-1.1	20, 831. 89	+1.
ilk goods	4	do	495	-37.4	8, 175. 50	-28.
laughtering and meat packing	4	do	1, 524	-1.0	40, 340, 02	-3.
tamping and enamel ware	5	do	1, 179	+.6	23, 746, 79	+4.
inware	4	do	2, 113	+5.3	43, 775, 37	+2
obacco	9	do	1,615	+11.9	23, 581. 03	+5.
mbrellas	3	do	356	+7.6	6, 107. 51	+6.1
discellaneous	14	do	4, 198	+8.3	97, 105, 32	+9.

[834]

# Massachusetts.

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THE Massachusetts Department of Labor and Industries in a recent press release makes the following report on volume of employment and average earnings in 814 identical establishments of the State for a specified week in December, 1923, and in January, 1924:

NUMBER OF EMPLOYEES AND AVERAGE WEEKLY EARNINGS IN MASSACHUSETTS MANUFACTURING ESTABLISHMENTS, WEEK INCLUDING OR ENDING NEAREST TO DECEMBER 15, 1923, AND JANUARY 15, 1924.

max	Number of estab-		er of em- n pay roll.	Average	
Industry.	lish- ments.	December, 1923.	January, 1924.	December, 1923.	January, 1924.
Automobiles, including bodies and parts	11	2, 269	1,722	\$32.98	\$28, 67
Boot and shoe cut stock and findings.	48	1, 695	1, 797	22, 06	22, 55
Boots and shoes	69	22, 172	22, 566	23, 03	23, 65
Boxes, paper		2, 182	2, 099	20. 15	
Boxes, wooden packing	10	957	897	22, 37	22. 10
Bread and other bakery products	36	3, 400	3, 360	23, 29	22. 10
Cars and general shop construction and repairs, steam	30	3, 100	3, 300	20. 20	22. 81
railroad companies		3, 318	3, 313	33, 27	30, 06
Clothing, men's.		2, 301	2, 240	21, 55	23. 13
Clothing, women's		1, 062	994	18, 88	18, 99
Confectionery		3, 854	3, 492	17. 95	18, 62
Copper, tin, sheet iron, etc.	13	798	762	27. 73	29. 09
Cotton goods		34, 539	30, 798	20, 20	20. 55
Cutlory and tools	23	4, 904	4, 622	24, 38	24, 05
Cutlery and tools Dyeing and finishing, textiles	6	6, 741	5, 118	24, 66	23, 88
Flootrical machinery annaratus and sunnlies	12	12, 213	11, 933	27. 03	27.77
Dyeing and finishing, textiles  Electrical machinery, apparatus, and supplies  Foundry and machine shop products	67	10, 278	9, 985	28. 72	27. 85
Furniture		2,410	2, 324	26, 96	26, 31
Hosiery and knitted goods	8	4, 263	4, 138	16. 94	17. 71
Jewelry		2, 972	2.878	24. 12	23. 08
Leather, tanned, curried, and finished	24	4, 624	4, 709	26, 68	26, 67
Machine tools	23	2, 220	2, 171	27, 50	27. 73
Musical instruments	8	1, 009	982	28, 31	28, 42
Paper and wood pulp	20	5, 811	5,660	25, 40	26, 26
Printing and publishing, book and job		2, 678	2,595	31, 07	31. 90
Disting and publishing, pour and jou	31	2,077			
Printing and publishing, newspaper Rubber goods	22	1, 764	1,852	40. 91	40. 28
Rubber footwear	3	9, 034	1, 837 8, 253	25. 54 25. 67	23. 49
Rubber tires and tubes	3	1, 050		33, 82	24. 68 33. 40
Silk goods	11		1, 068 2, 098		800, 80
Slaughtering and meat packing	4	2, 082 1, 809		20. 14 27. 52	20. 18 23. 35
Stationery goods	8	1, 294	1,803		20. 16
Steam fitting and steam and hot-water heating appa-		1, 201	1, 047	19. 06	20. 10
ratus		1, 549	1, 572	27, 17	28, 67
Tortile machiness and meets	10	6, 497	6, 180	28, 56	28. 00
Testate machinery and parts Tobacco Woolen and worsted goods	7	1, 096	1, 039	24, 49	24. 70
Woolen and worsted goods	38	15, 181	15, 055	23, 31	24. 70
All other industries	97	30, 978	31, 010	26: 40	26. 22
Total	814	213, 081	203, 969	24. 59	24. 48

While the decrease in the total number of persons on the pay roll in January, 1924, compared with December, 1923, was 4.3 per cent, the fall in average weekly wages was only 0.4 per cent. Average weekly earnings were higher in 18 industries and lower in 17 industries in January, 1924, than in the preceding month.

Among the outstanding decreases in volume of employment for the period under review are those listed below:

and leview are those listed below.	Per cent.
Dyeing and finishing textiles	24. 1
Automobiles, including bodies and parts	24. 1
Stationery goods establishments	19. 1
Cotton goods	10. 8
Printing and publishing, newspaper	10.8

[835]

The reports of the public employment offices of Massachusetts for the 12 months of 1923 and for January, 1924, together with the summary record for 1922 are given below:

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ACTIVITIES OF MASSACHUSETTS PUBLIC EMPLOYMENT OFFICES FOR JANUARY, 1924, AND YEARS 1923 AND 1922.

Month.	Working days.	Applica- tions for positions.	Applica- tions for help.	Number of persons referred to positions.	Number of person reported placed.
Four offices, month of January, 1924	26	33, 698	2, 555	3, 497	2, 1
January	26	30, 640	4, 384	5, 047	3, 5
February	23	26, 701	3, 810	4, 450	2,9
March	27	30, 594	5, 144	5, 718	3,9
April	24	30, 219	5, 730	6, 389	4,1
May	26	29, 531	5, 799	6, 517	4,5
June	1 26	27, 649	4, 548	5, 534	3,7
July	25	31, 152	3, 745	4, 699	2,9
August	26	30, 906	3, 512	4, 223	2,1
September	24 26	28, 622	3, 946	4, 796	3,
October November	26	31, 089	4, 067	5, 213	3,
December	25	30, 802 28, 489	3, 235 2, 493	4, 296	2,1
December	25	20, 209	2, 493	3, 189	2,
Total: 1923	303	356, 394	50, 413	60, 071	40,0
1922	303	421, 285	50, 312	57, 874	38,4

<sup>1</sup> Except the Boston offices, 25 days (closed June 17).

The increases shown in the above table in the number of persons placed and the number of persons called for in January, 1924, compared with December, 1923, were slight but encouraging, indicating "that the downward trend of employment, observed during the last 3 months of 1923 has at least been checked, if not definitely deflected upward."

The number of persons reported placed by the 4 public employment offices in the first month of 1924 was 37.9 per cent less than in the first month of 1923 and the number of persons called for was 41.7 per cent less in January, 1924, than in January, 1923. These decreases showed the effect of curtailed production upon the employers' demands for labor at these State offices.

# New York.

THE following advance figures from the New York State Department of Labor show the fluctuations in number of employees and amount of pay roll in certain manufacturing industries, January, 1924, compared with December, 1923, and January, 1923:

<sup>&</sup>lt;sup>1</sup> Data are from typewritten material from Massachusetts Department of Labor and Industries.

CHANGES IN VOLUME OF EMPLOYMENT AND PAY ROLL IN NEW YORK STATE MANUFACTURING INDUSTRIES, JANUARY AND DECEMBER, 1923, TO JANUARY, 1924.

		Per cent	of change.	
Industry		er, 1923, to y, 1924.		1923, to y, 1924.
The same of the boundary of the same of	Employ- ment.	Pay roll.	Employ- ment.	Pay roll.
Coment	-4.7	-6, 6	+15.6	+37.0
Rrick.	-13. 2	-14.8	+23.8	+58.
Pottery	-3. 4	+.1	+5.7	+22.
Glass		-1.1	-6.6	T-22
Pig iron and rolling mill products	-2.6	-3.0	-3.0	+7.
Pig iron and rolling initi products Structural and architectural ironwork	-2.6	-3.0	-3.0	+19.
Hardware	6	-1.6	+6.1	+14.
Hardware Stamped ware		+.7	-14.8	-7.
Cutlery and tools	-2.7	9	+3.7	+14.
Steam and hot-water heating apparatus	+3.8	+2.8	-17. 0	-3.
	-12.8	-11.0	-14.0	-3.
Stoves	+2.0	(1)	-5.6	+6.
Electrical machinery, apparatus, etc.	(1)	8	-8.5 +8.5	+25.
Foundry and machinery shops.	+1.2	-1.2	-6.2	+20.
		+7.1	+11.8	+17.0
Automobiles and parts	-13.9	-16.3	-17.9	-9.1
Locomotive and equipment factories.		-16. 5 -8. 5	-17.9	-11.
Railway repair shops	-1.0	-8.0	-5.8	+16.
Lumber, saw mills		-7.3	-9.4	+9.
	-0.0	-5.7	-3.3	+2.
Furniture Pianos, organs, and other musical instruments	7	-3. 9	+9.8	+19.
Lenther		+1.3	-12.9	7-19.
	-1.7	-3.6	-12.9	-6.
Boots and shoes	+.1	+. 2	+4.4	+15.
Drugs and chemicals	-2.7	-5.2	-2.7	+15.
Petroleum refining	-1.7	-3.2 $-2.4$	-2.7	+6.
Paper boxes and tubes			-2.0	
Printing, newspapers	+1.7	+1.9		+5.
Printing, book and job.	+.8	+2.7	-4.0	+1.
Silk and silk goods	-1.0	-4.5	-2.9	-1.
Cotton goods.			-19. 2	-18.
Cotton and woolen hosiery and knit goods	-3.4	-7.4	-4.9	+.1
Carpets and rugs	-1.0	+2.2	+4.0	-3.
Woolens and worsteds Dyeing and finishing textiles	+4.5	-7.4	-18.7	-18.
Dyeing and misning textiles	-25.1	-27.5	-27.1	-28.
Men's clothing		+3.8	-5.8	-7.
Shirts and collars		-3.0	-13. 2	-17.
Women's clothing		+14.8	-7.2	-6.
Women's headwear		+12.7	-5.2	. +.
Flour	2	9	+5.4	+14.
Bread and other bakery products	-3. 2	9	+7.8	+13.
Confectionery and ice cream		-15. 1	-6.1	+2.
Sugar refining	+.5		-35.0	-19.
Slaughtering and meat products	+1.2	-2.4	+6.2	+16.
Cigars and other tobacco products	(2)	+1.9	-7.4	+1.

<sup>&</sup>lt;sup>1</sup>Increase of less than one-half of 1 per cent.

#### Employment in February, 1924.2

Factory employment rose about 1 per cent in February, 1924. This increase resulted from a decided gain in the apparel industries. Another seasonal rise occurred in the manufacture of men's and women's outer garments and headgear. The fur industries and the shops making leather goods showed a distinct improvement in comparison with their low level of employment in January. There was a small gain in the shoe industry. Activity in the textile industries substantially increased and gains were shown in the knitting mills and textile finishing, carpet, and felt mills.

Volume of employment in the metal industries, taken as a whole, was about the same as in December, 1923. Drastic reductions in

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<sup>&</sup>lt;sup>3</sup> Decrease of less than one-half of 1 per cent.

<sup>&</sup>lt;sup>2</sup> Data are from typewritten report from New York State Department of Labor.

the locomotive and equipment factories and in the shipyards were counterbalanced by increases in nearly all of the other metal industries. The most outstanding gain was in the iron and steel mills, but there were decided increases also in sheet-metal goods, stove and heating apparatus, and automobiles.

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The resumption of operations in the sugar refineries and greater activity in the bakeries and biscuit factories increased the volume of employment in the food industries as a whole, although there were

many seasonal decreases.

Heavy declines took place in the brickyards in February. The cement mills reduced the number of their employees, which was, however, a rather late seasonal adjustment. Printing plants were also less active in February.

Wisconsin.

THE course of employment and the per cent of increase or decrease in pay rolls in various groups of business activities in Wisconsin in certain specified periods are shown in the following table, which is a summary of advance information received February 21, 1924, from the industrial commission of that State:

PER CENT OF CHANGE IN NUMBER OF EMPLOYEES AND TOTAL PAY ROLL IN VARIOUS INDUSTRIES IN WISCONSIN, JANUARY, 1924, COMPARED WITH JANUARY AND DECEMBER, 1923.

14-Th- Percent should be in the above	(+) or de	of increase ecrease (-) er of em-	Per cent of increase (+) or decrease (-) in total pay roll from -		
Industry.	December, 1923, to January, 1924.	January, 1923, to January, 1924.	December, 1923, to January, 1924.	January, 1923, to January, 1924.	
· Manual.					
Logging Mining Stone crushing and quarrying Manufacturing Stone and allied industries Metal Wood Rubber=- Leather Paper Textiles. Foods Light and power Printing and publishing Laundering, cleaning, and dyeing Chemicals (including soap, glue, and explosives) Building construction Highway construction Railroad construction Marine dredging, etc Steam railways Electric railways Electric railways Express, telephone, and telegraph Wholesale trade Hotels and restaurants	+6.5 -10.2 -5.5 -6.0 +1.7 +2.4 5.4 3 -1.1 -6.5 -20.6 9 -1.8 -1.2 -2.3 -3.6 -1.9 -1.9 -1.58.6 -1.9 -1.9 -1.1 -5.5 -2.3 -3.3 -3.5 -1.1 -5.5 -2.3 -3.5 -1.5 -2.5 -3.5 -1	+32 2 +97.9 -8.3 +28.7 +35.6 +48.2 +24.3 +47.0 +18.2 +2.0 +17.9 +30.5 +19.7 +11.6 +40.4 +10.4 +10.4 +10.4 +10.5 +1	-8.7 -22.7 -4.2 -14.8 -7.3.5 -7.8 -1.1 -9.5 -4.2 -14.7 -17.8 -6.0 +.6 -29.5 -29.5 -29.5 -3.4 -3.3 +5.3 -5.6 -10.4	+16. +18. -1. +300. +42. +24. +43. +15. +65.	
Nonmanual.  Manufacturing, mines, and quarries	-1.3 -1.3 +.4 -25.1 +1.1	+1.9	7 -3.9 -4.3 -16.8 -12.8	+9. +9. +9. +4. +13. +22	

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2.9 2.2 1.4 1.1 2.8 5.8 Further light is cast on conditions in the Wisconsin labor market by the report given below on the number of persons placed by the public employment offices in the State in January and December, 1923, and in January, 1924:

NUMBER OF PLACEMENTS MADE BY WISCONSIN PUBLIC EMPLOYMENT OFFICES IN JANUARY AND DECEMBER, 1923, AND JANUARY, 1924.

Industry.	January, 1924 (4 weeks).	December, 1923 (5 weeks).	January, 1923 (4 weeks).
Agriculture	149	246	173
Building and construction.	78	155	79
Casual workers.	2, 677	3, 224	1,521
Clerical, professional and technical.	119	155	128
Common labor	637	972	777
Domestic and personal service	344	374	376
Hotel and restaurant	220	230	139
Lumber	774	888	640
Manufactures:			
Chemicals	3	3	
Clothing and textiles	16	26	27
Food, beverages, and tobacco	23	38	11
Leather, rubber, and allied products	18	21	6
Metals and machinery	398	351	157
Paper	25	25	11
Printing	1	7	3
Woodworking	123	64	29
Mines and quarries.			5
Shipbuilding			3
Theaters and amusements			2
Transportation and public utilities	107	235	60
Wholesale and retail trade	44	69	66
Miscellaneous	46	44	46
All industries	5, 802	7, 127	4, 250

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#### INDUSTRIAL ACCIDENTS AND HYGIENE.

#### Metal-Mine Accidents in the United States in 1922.

THE report of the United States Bureau of Mines on metal-mine accidents in the United States during the calendar year 1922 (Technical Paper 354) shows a slight increase in the injury rates over the preceding year and a somewhat higher fatality rate, owing largely in the latter case to a disastrous mine fire in California which caused the loss of 47 lives.

There was an increase of more than 30 per cent in the volume of work done in metal mines in 1922 as compared with 1921. The operators' reports show that there was a total of 105,697 men employed during the year and the average number of days worked per man was 276, as compared with 93,929 employees and 238 average workdays in the preceding year. Underground employees averaged 284 working-days and those working above ground 254 days per man.

The number of shifts worked by all employees was 68 per cent greater in copper mining in 1922 than in 1921, 29 per cent greater in iron mining, 10 per cent greater in gold and silver mines and those producing minor metals, 53 per cent greater in lead and zinc mining, and 10 per cent greater in mines producing nonmetallic minerals.

Mine accidents resulted in the death of 344 men and the injury of 26,080 others. The fatality rate per 1,000 300-day workers was 3.54 in 1922 and 3.09 in 1921. The injury rate was 268.48 and 249.69 for 1922 and 1921, respectively, each injury reported causing disability for at least one day. Underground workers showed a fatality rate of 5.01 per 1,000 full-time workers and an injury rate of 348.71; corresponding rates for open-pit workers were 2.17 and 118.67, and for employees in surface shops and yards, 0.83 and 151.59.

The statistical material presented in the report is based on the voluntary reports of 2,599 operators, while reports for Alaska were furnished by the Territorial mine inspector and for California by the State industrial commission. It is believed the figures published are reasonably complete for the entire metal-mining industry.

The following table shows the number of fatalities and of serious and slight injuries in metal mines in the United States, 1915 to 1922:

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FATAL, SERIOUS, AND SLIGHT INJURIES IN METAL MINES IN THE UNITED STATES, 1915 TO 1922.

Type of injury.		Number of injuries.								
Type of injury.	191	5	1916	1917	1918	1919	1920	1921	1922	
Fatal	. 5	53	697	852	646	468	425	230	344	
Serious (time lost more than 14 days): Permanent disability— Total 1 Partial 2 Others Slight (time lost, 1 to 14 days)			44 693 10, 099 37, 401	39 666 10, 220 35, 361	62 640 9, 066 33, 147	7 321 7, 848 23, 330	12 345 7, 894 24, 311	7 173 4, 817 13, 607	9 231 6, 510 19, 330	
Total nonfatal injuries	35, 25	95	48, 237	46, 286	42, 915	31, 506	32, 562	18, 604	26, 080	
Grand total (fatal and nonfatal).	35, 84	48	48, 934	47, 138	43, 561	31, 976	32, 987	18, 834	26, 424	
Men employed	152, 1	18	204, 685	200, 579	182, 606	145, 262	136, 583	93, 929	105, 697	

<sup>1</sup>Permanent total disability: Loss of both legs or arms, one leg and one arm, total loss of eyesight, paralysis, or other condition permanently incapacitating workman from doing any work of a gainful occupation.

occupation.

Permanent partial disability: Loss of one foot, leg, hand, eye, one or more fingers, one or more toes, any dislocation where ligaments are severed, or any other injury known in surgery to be permanent partial

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ous 22: The following table shows the number of employees, the number of fatalities and injuries, and the fatal and nonfatal accident rates, by kind of mine, in 1921 and 1922:

NUMBER EMPLOYED, NUMBER KILLED AND NUMBER INJURED, AND FATAL AND NONFATAL ACCIDENT RATES IN METAL MINES, 1921 AND 1922.

en i			Men en	nployed.	Kil	lled.	Inju	red.1
Kind of mine.	Active operators.	A verage days worked.	Actual number.	Equivalent number of 300-day work-ers.	Num- ber.	Rate per 1,000 300- day work- ers.	Num- ber.	Rate per 1,000 300- day work- ers.
Copper Gold, silver, and miscellaneous metal Iron. Lead and zine (Mississippi Valley) Nonmetallic mineral	357 2, 135 122 66 216	244 269 210 234 235	18, 300 26, 516 30, 559 6, 948 11, 606	14, 871 23, 738 21, 369 5, 431 9, 101	55 78 65 14 18	3. 70 3. 29 3. 04 2. 58 1. 98	4, 722 5, 352 4, 507 2, 062 1, 961	317. 53 225. 46 210. 91 379. 67 215. 47
Total	2, 896	238	93, 929	74, 510	230	3. 09	18, 604	249. 69
Copper	274 1, 942 110 74 199	292 284 257 278 271	25, 739 27, 614 32, 241 8, 990 11, 113	25, 017 26, 144 27, 621 8, 332 10, 024	75 140 83 22 24	3. 00 5. 35 3. 00 2. 64 2. 39	8, 025 6, 805 4, 901 3, 868 2, 481	320. 78 260. 29 177. 44 464. 23 247. 51
Total	2, 599	276	105, 697	97, 138	344	3. 54	26, 080	268. 48

<sup>&</sup>lt;sup>1</sup> Time lost more than one day.

The report also gives detailed information in regard to the distribution of accidents according to causes and by States, in the different classes of mines, and accidents classified according to mining methods. There is also a comparison of the accident rates in all branches of the mineral industry for which statistics are compiled by the Bureau of Mines.

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Accidents at Metallurgical Works in the United States in 1922.

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THE statistics of accidents at metallurgical works compiled by the United States Bureau of Mines (Technical Paper 350) represent the entire metallurgical industry of the United States, except iron blast-furnace plants for which accident reports are not received by the bureau. The reports are furnished voluntarily and directly by operators of ore-dressing plants and smelters with the exception of California, the data for that State being furnished by the State industrial accident commission. The figures for smelting plants cover copper, lead, gold, and silver smelters and refineries, and ore-dressing plants represent concentrating plants for copper, lead, and zinc ores; stamp mills; cyanide plants; iron-ore washers; flotation mills; and sampling works.

The number of men employed in these works during 1922 was 44,000, an increase of 32 per cent over 1921. The average working time per man was 314 days, an increase of 15 per cent, and the total exposure to risk—that is, the amount of labor performed by all employees—was equal to 13,802,318 man-days, which was an increase of 56 per cent over the revised figures for the preceding year.

The fatality rate for the year was 0.98 per 1,000 300-day workers and the nonfatal injury rate was 145.15. The corresponding rates for the preceding year were 0.76 and 126.74. The figures for 1922 divided into three main groups show that for mills the accident rates were 1.09 killed and 179.51 injured per 1,000 employees; for smelters, 0.77 killed and 143.71 injured; and for auxiliary works such as yards, shops, and construction work, 1.21 killed and 120.26 injured.

There was a total of 6,723 accidents occurring in these works during the year, 0.67 per cent of which were fatal, while 0.03 resulted in permanent total disability, 1.13 per cent in permanent partial disability, 24.17 per cent in temporary disability lasting more than 14 days, and 74 per cent in disability lasting from 1 to 14 days.

The following table shows the number of accidents at metallurgical works in the United States during the years 1916-1922, classified according to severity:

ACCIDENTS AT METALLURGICAL WORKS IN THE UNITED STATES, 1916 TO 1922.

TO DOES THE THE TANK OF THE STATE OF THE RESIDENCE OF THE STATE OF THE	Number of injuries.								
Type of injury.	1916	1917	1918	1919	1920	1921	1922		
Fatal. Serious (time lost, more than 14 days): Permanent disability—	83	116	94	64	61	27	45		
Total 1 Partial 2 Others Slight (time lost, 1 to 14 days, inclusive)	17 200 3, 443 11, 420	3, 302 10, 069	7 247 3, 028 9, 411	71 1,869 6,184	147 3 1, 990 6, 724	0 38 31,025 3,431	2 76 3 1, 625 4, 975		
Total nonfatal injuries	15, 080	13, 578	12, 693	8, 126	8, 863	4, 494	6, 678		
Grand total (fatal and nonfatal)	15, 163	13, 694	12, 787	8, 190	8, 924	4, 521	6, 723		
Men employed	80, 201	84, 042	79, 752	61, 120	59, 232	37, 465	44, 000		

Permanent total disability: Loss of both legs or arms, one leg and one arm, totalloss of eyesight, paralysis, or other condition permanently incapacitating workman from doing any work of a gainful occupation.

Permanent partial disability: Loss of one foot, leg, hand, eye, one or more fingers, one or more toes, any dislocation where ligaments are severed, or any other injury known in surgery to be permanent partial disability.

disability.

1"Other serious accidents' in 1919 include 50 cases of permanent partial disability; in 1920, 72 cases of permanent partial disability and 1 case of permanent total disability; in 1921, 18 cases of permanent partial disability and 2 cases of permanent total disability; and in 1922, 83 cases of permanent partial disability and 2 cases of permanent total disability.

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The ratio of accident occurrence to the amount of exposure to risk has been computed by the Bureau for the first time and is shown in this report for the year 1922, the figures relating only to mills and smelters. The frequency of accidents of varying degrees of severity is shown for men working 8 hours, 9 hours, and 10 hours a day. No rates are shown for 11-hour and 12-hour men as less than 500 men were employed in each of these groups, or for 10-hour men in smelters because of the small number employed. These figures are not considered conclusive until they are confirmed by data covering a longer period, but they are the only evidence available at present as to the influence of the length of shift upon the accident hazard to which men employed at mills and smelters are exposed. The total number of men employed in mills was 10,979 and in smelters 19,134. The following table shows the fatalities and injuries in metallurgical works per 1,000,000 hours of exposure, classified by length of shift, for the year 1922:

FATALITIES AND INJURIES IN METALLURGICAL PLANTS PER 1,000,000 HOURS OF EXPOSURE, CLASSIFIED BY LENGTH OF SHIFT, YEAR ENDED DECEMBER 31, 1922.

Character of disability.	Rate per 1,000,000 hours' exposure, in shifts of—						
-diffusion below teturning orange	8 hours.	9 hours.	10 hours.				
Mills: Fatal Permanent total disability	0.469	*** ** ** ** ** ** ** ** * * * * * * *	0, 554 . 277				
Permanent partial disability Other serious	. 391	12, 729 26, 306	1, 661 14, 672 98, 276				
Total injuries (nonfatal)	53, 305 53, 774	39. 035 39. 035	114. 886 115. 440				
Smelters: Fatal Permanent total disability	. 359	1. 292					
Permanent partial disability Other serious Slight	1. 047 16. 248 45. 662	1. 292 43. 934 54. 271					
Total injuries (nonfatal)	62. 987 63. 346	99, 497 100, 789					

## Poisoning From Small Quantities of Mercurial Vapor.1

A STUDY of mercurial poisoning resulting from the inharation of small quantities of mercurial vapor by persons operating electric induction furnaces has been made by Dr. J. A. Turner of the industrial hygiene and sanitation division of the United States Public Health Service.

The study was prompted by the appearance of symptoms of poisoning among chemists in a Government metallurgical laboratory believed to be due to exposure to a substance emanating from the electric induction furnaces operated by them. These furnaces are similar in type, though somewhat smaller, to those used in certain industries so that the study is of added significance because of its relation to the occurrence of mercurialism among industrial workers.

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<sup>&</sup>lt;sup>1</sup> United States Public Health Service, Public Health Reports, Feb. 22, 1924, pp. 329-341: "Mercurial poisoning," by Dr. J. A. Turner.

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The induction furnaces, one of 10-kilowatt and one of 20-kilowatt capacity, located in separate rooms, were in use in the laboratory. The point of interest in the mechanical construction of the smaller furnace was the mercury gaps in which two electrodes passed through loosely fitting sleeves in the furnace cover, so that the electrodes could be raised or lowered, and thus adjusted to the metallic mercury. The electrodes and furnace jackets were water-cooled and ethyl alcohol was allowed to drip on the mercury for the purpose of limiting its vaporization. In spite of the water-cooling system and the alcohol, however, the escape of mercury was evidenced by globules of various

sizes on the safety cage surrounding the furnace. Samples of dust were collected in different parts of the furnace room and the analysis of these samples showed from 1 to 3 per cent mercury content. Air samples were collected by the use of a Palmer dust machine in order to determine the approximate severity of exposure to mercury vapors emanating from the induction furnaces. These samples were taken at a distance of 1½ to 2 feet from the furnace at about the level of the furnace operator's face and after the furnace had been run for different periods of time. The 10-kilowatt furnace was of the old type with the loose fitting sleeves in the furnace cover. A 20-kilowatt furnace in which the electrodes were set stationary in the gap cover and were mercury sealed was also used While this type is an improvement over the old for air samples. type it was found that it did not entirely prevent the escape of mercury. Analysis of air samples from the 20-kilowatt furnace showed that they contained on an average 0.0133 milligram of mercury per cubic foot of air. Operators of the 10-kilowatt furnace who were exposed to 0.02 milligram of mercury per cubic foot of air with a daily exposure ranging from 3 to 5 hours were estimated to take into their systems 0.771 milligram during 3 hours' exposure and 1.285 milligrams during 5 hours' exposure.

The small quantities of mercury escaping from the 20-kilowatt furnace show how readily mercury is vaporized, even when it is well inclosed as in this type of furnace, and that exposure should be guarded against by removal of the vapor at its source by a forced exhaust system.

Another method of determining the amount of mercury in the air was used as a check on the first study. This consisted in drawing the air through a carefully weighed glass tube filled with gold leaf and glass wool in alternate layers. The mercury passing through the tube amalgamated with the gold leaf and the quantity of mercury was determined by the increase in weight. The first method used in analyzing the laboratory air (that is, the collection of dust in the Palmer machine) showed somewhat larger quantities of mercury, but this is in part at least accounted for by the difference in the flow of air, the air being drawn through the Palmer machine at a very much higher rate of speed, and by the difference in methods of measuring the mercury. In spite of these differences in method, however, there was "not a very wide difference in the end results."

There were five men who had been exposed to the mercury vapors for a sufficient length of time to show evidences of poisoning. Three of these men were operating the induction furnaces at the time the study was made while two had operated the furnaces previous to the

investigation. All these men were given thorough physical examinations. The two who had been previously exposed had shown symptoms of the mercurial poisoning at the time of exposure while the remaining three men who were operating the furnaces at the time of the study showed definite lesions and symptoms of mercurial poisoning.

The conclusions drawn as a result of the study are as follows:

1. Daily exposure to an atmosphere containing as small a quantity as 0.02 milligram of mercury per cubic foot of air results in signs and symptoms of poisoning. The histories indicate that daily exposure must continue for two to three months, or more, before symptoms appear.

2. It is estimated that in exposure to the above quantities of mercury for 3 to 5 hours daily there is a total daily absorption of mercury ranging from 0.771 to 1.285 milligrams, according to the duration of exposure.

3. Mercury is volatilized from both the 10 and 20 kilowatt induction furnaces during their operation. This mercury vapor is disseminated throughout the room and recondensed to the metallic form. This is evidenced by analysis of dust samples obtained at various distances from the furnaces, which showed the

presence of from 1 to 3 per cent of mercury.

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4. The objective symptoms of chronic mercurialism are manifested by a copper-colored discoloration of the mucous membrane of the pharynx, the pillars of the fauces, and the gums. This discoloration was constant in all cases and of the fauces, and the gums. This discoloration was constant in all cases and should not be confused with infective inflammatory processes, which it somewhat resembles. The gums are swollen, and there is enlargement of the capillaries. Superficial erosions appear upon the mucous membrane of the gums, and upon the buccal mucous membrane in the vicinity of the upper molar teeth. Perialveolar abscesses frequently occur and cause considerable discomfort. Occasionally there is an appreciable increase in the flow of saliva. Urine analysis and differential blood counts show the urine and the blood to be unaffected by the mercury absorbed. Subjective symptoms are characterized by tenderness of the gums and hypersensitiveness of the teeth, particularly those containing amalgam fillings. Activity of intestinal peristalsis is slightly increased, occasionally developing into mild attacks of diarrhea. Obstinate constipation is developed during absence from the laboratory for one to two weeks. Gastrointestinal disturbance is manifested by pain due to accumulation of gas; there is often distention and feeling of weight in the hypogastric and iliac regions. As mentioned, there are occasional attacks of diarrhea. Shifting neuralgic pains are occasionally felt in the various joints and in the chest.

5. The problem of the prevention of mercurial poisoning in laboratories and industrial establishments can best be solved by inclosing all apparatus in which mercury is used and by conveying the fumes away from the worker's face so that

it will be impossible for him to inhale them.

# Action of Irritant Gases Upon the Respiratory Tract.

N ARTICLE on the physical effect of irritant gases on the respiratory tract, by Dr. Howard W. Haggard, was published in the Journal of Industrial Hygiene, February, 1924 (pp. 390-398). There is a large group of the so-called "irritants" among the gases and vapors found in industrial processes. The difference in the symptoms produced by the various gases belonging to this class is due not so much to the difference in their chemical properties as to the difference in their physical properties. This paper, of which the following is a summary, defines the action of these gases on different sections of the respiratory tract.

An irritant gas or vapor is one which produces inflammation in those tissues with which it comes in contact. This action is direct upon surface tissues, notably the mucous membrane of the eye and the respiratory membranes, and the effects are of the greatest severity

on those surfaces which are most easily penetrated.

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The effects of all the irritants on any part of the respiratory tract are essentially the same and differ only in degree. This effect, except in cases of exceptional intensity of the gas, is not that of simple and direct corrosion such as the effect of hydrochloric acid upon zinc, for the irritant gases act in such extreme dilution that gross chemical corrosion is not usually involved. If it is involved it causes almost instant death.

The different gases affect different sections of the respiratory tract. Ammonia produces intense congestion of the upper respiratory passages and immediate death from spasm or edema of the larynx, while phosgene and nitrogen peroxide have little effect on the upper respiratory tract but induce pneumonia or edema of the lungs. Chlorine is intermediary in its action between ammonia on the one

hand and phosgene and nitrogen peroxide on the other.

The fact that the selective action of the various irritants is due to their physical rather than their chemical properties is especially true of solubility. A gas which is very soluble in water and is readily diffused in its solution is taken out of the inspired air by contact with the first moist tissue it touches. The result is that the upper respiratory passages are the parts most affected, the concentration of the irritant reaching the lungs being greatly reduced. In the case of a gas which has a very low solubility in water there is little of the gas absorbed in the upper respiratory passages and the principal damage is done deep in the lungs.

The degree of concentration of an irritant gas is of great importance. In the case of the volatile irritants the severity of the action does not vary according to the amount and duration of the application, but a high concentration, for even a short time, has an intense

effect.

The inhalation of an irritant gas exercises an immediate effect on the nasal passages and the larynx, causing them to become acutely painful, and a series of reflexes are set in motion, such as coughing, constriction of the larynx and bronchi, closing of the glottis, and inhibition of respiration, which tend to prevent the penetration of the irritant to the deeper and more delicate parts of the respiratorytract.

Coughing is caused by even slight irritation, but this response to an irritant in the air varies in different individuals. Persons whose throats have been rendered sensitive by the use of tobacco or from infection cough more readily than normal persons, while those with chronic mild inflammatory or catarrhal conditions, because of decreased susceptibility, cough less readily. While coughing is, of course, no protection, it serves as a warning of the presence of these

substances in the atmosphere.

The physiological efforts of the different parts of the respiratory tract for self-protection are of great importance, as the delicacy of the respiratory membranes and their susceptibility to injury increase in passing from the upper to the lower part of the tract. Although the nose and pharynx may be stripped raw they may receive little permanent damage, while the injury to the larynx and bronchi may result in the general systemic effects which are present in cases of acute laryngitis and bronchitis which develop from any cause. The lungs when directly acted upon by an irritant receive serious injury and edema or pneumonia may develop, with a possible fatal outcome.

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of The iry ne. If death is not an immediate result of lung edema, the usual symptoms of severe membranous bronchitis and tracheitis may last for several days, after which regeneration of the mucous membrane begins to take place, although there is almost always infection of the bronchi. In cases of severe inflammation of the upper respiratory tract there may be an edematous swelling of the larynx sufficient to close the opening of the trachea, in which case death may result from acute asphyxia. This is the common cause of fatalities occurring during or soon after severe exposure to the class of gases that affect this part of the respiratory tract. If death does not result at once from swelling of the larynx or spasm of the glottis, lung edema may develop, reaching the climax in from 12 to 24 hours, when if death does not occur inflammation tends to subside in from two to three

The effect of the action of the gas on the lungs is to interfere with the respiratory exchange of oxygen and carbon dioxide between the air and the blood and to obstruct the flow of blood through the lungs, thus placing a strain on the right side of the heart. Irritation of the lungs does not cause severe pain as does irritation of the upper air passages. The principal symptoms of lung edema are those of asphyxia which is not, however, associated with air hunger in its early stages. The patient may be an ashy gray color but with no difficulty in breathing, although he may be in danger of death, especially on making the least exertion. In the later stages the skin may be of a blue color and there may be intense air hunger. In nonfatal cases of pulmonary edema no medicinal measures are effective in affording relief, with the exception of oxygen which, however, has no markedly beneficial effect on the progress of the disease. The mortality from the pneumonia following gassing is high, death occurring in from four days to two weeks. An exposure which is not sufficient to cause the acute symptoms of lung irritation may cause pneumonia, and "under industrial conditions the infections thus induced constitute a greater cause of death than primary pulmonary edema. Many observers feel that irritant gas or vapor even in extreme dilution is to be regarded as predisposing to the development of pneumonia. The only exception to this statement is afforded by chlorine which, in low concentrations, seems to exert a bactericidal action without appreciable irritation."

On the other hand, there is considerable uncertainty as to the rôle of irritant gases as a predisposing factor in the development of pulmonary tuberculosis. This disease can not be said to arise as a direct sequel of irritation of the lungs as is the case with pneumonia. The statistics of the subsequent health of soldiers gassed during the war indicate that when the lungs have once healed they are not appreciably more liable to tuberculosis than would otherwise have been the case. On the other hand, when the subject has suffered a period of decreased vitality or ill health as a consequence of the action of irritant gases upon the respiratory tract or as a result of the subsequent acute infection, then tuberculosis may develop as a recurrence of a previously existing lesion just as is often the case following decreased vitality from any other cause. It often happens that the subject has had no knowledge of this preexistent but dormant infection; indeed, it may not have been elicited even by physical examination. In considering tuberculosis, however, it is necessary to assume that every normal healthy person carries a dormant infection and that the disease is liable to become clinically evident whenever the resistance of the body is lowered sufficiently. Thus gassing may fairly be said to be, in the ordinary use of the words, the cause of a tuberculosis progressing steadily from the occurrence of poisoning, but not of a tuberculosis developing at some time subsequent to virtually com-

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plete recovery from the gassing itself. The crux of the question in any particular case is whether or not the gassing undermines the subject's general health.

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Severe irritation of the lower respiratory tract may result in a chronic inflammatory condition and cause a long period of ill health. In some cases there is little evidence upon physical examination of persistent changes in the lungs and the subject at rest may appear normal although he is in reality capable of only very moderate exertion. In such cases an individual may be unjustly suspected

of malingering.

Prolonged exposure to gas in quantities insufficient to cause death may result in chronic poisoning evidenced by a moderate inflammation of the upper respiratory tract associated with a sharp cough. If the exposure is incidental to regular working conditions the inflammation passes into a catarrhal state and the coughing becomes less marked. While the worker appears then to have acquired a degree of tolerance for the gas this is not the case, the protective reflexes having simply become less active and the effect of the catarrh is to leave the deeper respiratory tract more exposed to the action of the gas. In addition, chronic poisoning affects the general health, causing loss in weight and increased liability to acute infection and to the development of tuberculosis.

Most of the irritant gases act in such a way upon the respiratory tract that they are destroyed or neutralized and therefore are not absorbed into the body in their original form. As a rule there is no systemic poisoning following absorption of these products. Hydrogen sulphide and nitrogen peroxide are exceptions to this rule, however. Hydrogen sulphide is absorbed and neutralized in the respiratory tract to sodium sulphide and the absorption of this alkaline sulphide into the blood stream produces a profound systemic poisoning. Nitrogen peroxide when inhaled forms sodium nitrite and may cause nitrite poisoning, although the symptoms may be obscured by the

much more acute pulmonary irritation.

Organic substances such a alcohols, ethers, aldehydes, volatile petroleum, and coal-tar products, which are generally classed as irritants, are absorbed from the respiratory tract without change. Their systemic effects are in general more severe than their action as pulmonary irritants.

The local action of these substances differs from that of the more common irritants in two respects: (1) The mucous secretion which results from their action upon the respiratory passages does not serve to form a protective coating against their action; the secretion neither neutralizes nor alters these substances, but rapidly becomes saturated with the gas at the tension inhaled. (2) The greater part of the irritant action occurs in the upper respiratory passages, bronchi, and bronchiolea, while the lung alveoli and atria are relatively little affected. Such amounts of the gas as reach the lungs themselves are absorbed unchanged. This location of action is quite exceptional, for the solubility of these substances is usually quite low. The sparing of the deeper portion of the lungs is the result of the active absorption into the blood, which keeps the concentration of the irritant in the alveoli constantly at a low level.

The following table summarizes the effects of the different irritant gases, their solubility, and the concentrations which cause dangerous symptoms after exposure of one hour:

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RELATION BETWEEN THE PHYSICAL PROPERTIES OF IRRITANTS AND THEIR SITE OF ACTION IN THE RESPIRATORY TRACT AND SUBSEQUENT SYMPTOMATOLOGY.

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Irritant.	Approximate solubility in water, by volume, at 40°C.	Site of main action upon respiratory tract.	Nature of local action.	Concentration dangerous to breathe for 1 hour (parts per million of air).2	Symptomatology.
Ammonia gas	444 (ex- trapo- lated).	Upper respiratory tract.	Alkaline caustic	2,000	Elicits immediate and vio- lent respiratory reflexes; coughing and arrest of respiration.
Hydrochloric acid gas.	385	do	Acid action. Neu- tralizes alkali of tissues and alters the reaction.	1, 500	
Formaldehyde	Very soluble.	do	Combines with proteins and alters them.		Death from edema or spasm of larynx. Upper respira- tory tract inflamed.
Sulphuric acid	Encoun- tered as droplets.	do	Acid action		
Sulphur dioxide.		Upper respiratory tract and bronchi.	Acid and oxidizing action.	400	Elicits respiratory reflexes.  Rarely causes death from edema of the larynx.  Trachea and bronchi inflamed. Lung edema are.
Bromine	9.4	Both upper and lower respirarory tract.	Oxidizing action	60	Elicits respiratory reflexes. Inflammation of entire respiratory tract. Edema of lung after severe exposure.
Chlorine	1.4	do	do	40	Does not elicit marked respiratory reflexes. May be
Phosgene Nitrogen perex- ide.	Decomposes.	Lower respiratory tract.	Liberated HCl has acid action. Liberated HNO <sub>3</sub> and HNO <sub>2</sub> have acid and oxidiz- ing action.	25 117	fatal in concentrations which cause no reflexes at all. Upper respiratory tract inflamed only after very severe exposure. Usually no immediate symptoms. Delayed death from lung edema.

¹ Landolt-Börnstein: Physikalisch-Chemische Tabellen. Berlin, Julius Springer, 1905, p. 599. 40°C. → 104°F.

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 <sup>104°</sup> F.
 2 Kobert, R.: Kompendium der praktischen Toxikologie. Stuttgart, F. Enke, 1912, p. 45.
 3 The toxicity of phosgene is greater than that of nitrogen peroxide for the reason that a portion of the peroxide is decomposed into the relatively weak nitrous acid.

#### WORKMEN'S COMPENSATION AND SOCIAL. INSURANCE.

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Steadying the Worker's Income—Establishment Unemployment In. surance Plans.1

By MARGARET GADSBY, OF THE UNITED STATES BUREAU OF LABOR STATISTICS.

NEMPLOYMENT, like accidents or industrial diseases, is one of the hazards of industry; the fear of joblessness is an industrial poison, insidious and corrosive. The obvious remedy for immediate application, and one which, in some instances, has proven quite effective, is regularization of employment. There is a growing demand, however, for treatment to be applied at that point where emergency remedies fail—a method of relief which will be reliable and as painless as possible to all concerned and which will cure, so far as it is possible to cure, the disease and prevent its recurrence. Insurance of employment, or of wages if work can not be furnished, is the method which has found most general acceptance.

Experience with unemployment insurance in other countries has shown that the most effective plan is one which combines the benefit and preventive features, but with the emphasis on prevention. Experience with accident compensation laws, which has proven them the best promoters of safety measures, has led to the belief that the effect of a sound insurance plan should be to reduce the need for it. Any form of unemployment insurance which gains acceptance in this country will undoubtedly be based upon this fundamental idea.

The number of systematic plans for the prevention and relief of unemployment in this country is very limited. Growing interest and the accompanying demand for information on this subject have led the United States Bureau of Labor Statistics to make a survey of existing efforts in this direction, with a view to discovering more especially the actuarial bases of such plans, if any, their method of operation, their results, and the methods of regularization of employment which have made the introduction of such plans into industrial establishments possible.

In a number of States bills providing some form of unemployment insurance have been proposed, notably the Huber bill in Wisconsin.

A number of the larger unions, especially in the needle trades, have passed resolutions and are now negotiating with employers for the institution of joint contributory plans. In two large markets joint plans have been set up.

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<sup>&</sup>lt;sup>1</sup>This is the first of two articles to be published in the Monthly Labor Review showing the systematic plans now operating in the United States whose purpose is insurance against unemployment. This article deals with establishment plans, financed with one exception by the employer alone. The second article will deal with joint market plans and trade-union efforts.

<sup>1</sup> For details of this bill see substitute amendment No. 1 S., to bill No. 122 S., May 3, 1921, offered by Senator Huber. Bills have been introduced also in New York, Massachusetts, and Pennsylvania.

Various national and international trade-unions have attempted from time to time systematic relief for their members. There are now only four of the smaller unions which support such a plan, and at least two of these are contemplating giving up their plans, which are admittedly inadequate. The consensus of opinion seems to be that such action should be local and that even then it is of questionable effectiveness. The significant fact is that the burden of unemployment is borne by the workers, who, in spite of their direct interest, can not prevent its occurrence and can do little by themselves to relieve its consequences.

This article holds no brief for any form of unemployment insurance. Its purpose is to show some of the plans now in operation in establishments in the United States which purport to mitigate in any degree the unemployment hazard.

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The "unemployment risk" has never been measured, and the plans now operating in certain industrial establishments have little or no basis in actuarial science. They are merely carefully worked out experiments and quite frankly acknowledged as such. Apparently they have been variously motivated, sometimes by a sense of social responsibility, sometimes by the purely selfish motive of keeping a skilled force intact, and sometimes by a combination of such motives. The essential thing, however, whatever the motive, is that this group of employers has cared enough about the problem to be willing to undertake experiments which promise something worth while.

Following are some types of plans found in operation, together with the method of their operation, and such significant results and details of accompanying methods of reduction of unemployment as it was possible to obtain.

Unemployment Fund of a Large Paper and Novelties Manufacturing Company.

THE unemployment fund of a large paper and novelties manufacturing company is a sum of money set aside by the directors when business is good in order to keep the working force intact and to tide employees over the dull periods. The aim of the company has been the prevention of unemployment in so far as possible by proper management and the mitigation of the hardships of such unemployment as can not be avoided by making reservations for contingencies beyond the employer's control. In 1916 the company set aside from its profits an unemployment fund, which was allowed to cumulate over a period of about five years before a formal plan for its use was adopted. The working out of the provisions for the administration of the fund was placed in the hands of a special committee, two members of which, chosen from the general works committee, represented the employees, and two members, chosen by the company, represented the management. By the terms of the plan thus worked out the company guarantees neither permanency of employment nor the maintenance of the regular wage rate. The plan is frankly an experiment. In the lack of knowledge on the subject the fund is provided with emphasis on its wise use and with

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the frank statement that its renewal is not guaranteed. It does, however, seek to protect from hardship those workers whose earning power is temporarily reduced by reason of unemployment.

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power is temporarily reduced by reason of unemployment.

Definition of unemployment.—The term "unemployment," under this plan, is given a broad interpretation, total or even partial idle, ness not being regarded as necessary in order to establish unemploy, ment within the intent of the fund. Any loss involved by the inability of a worker willing to continue employment at his normal duties, while being retained on the books of the company, is considered unemployment. Unemployment, therefore, includes not only complete lack of work, but loss, by reason of diminished returns resulting from temporary transfer of employees from one department to another, which might result in materially lowered wages. Employees, regardless of length of service, are paid for all unemployment of one-half day or over at one time. No lay-off or transfer of less than half a day at one time is considered unemployment.

When benefits are paid.—In all cases where the employee's earning power is temporarily reduced because of lack of employment, whether he is rendered idle or secures temporary employment in some other work inside or outside the factory, he is protected by the terms of this plan against any severe hardship. The company retains the right to discharge freely for stated causes. Such discharges are subject to review, however, and can not be made without due

notice or pay in lieu thereof.

No compensation is paid for time the employee might have been working if he fails to accept what the management and a majority of the unemployment fund committee consider to be a reasonable offer of a job either with the company or elsewhere. At any time after six days' payments have been made to any employee during one continuous lay-off, further payments may be stopped by the committee unless the employee can convince the management or a majority of the committee that he has made reasonable effort to secure work elsewhere. This latter provision has never been utilized, however. The best workers are eager to find jobs.

All payments of unemployment compensation are made weekly, and all calculations of the amount to be paid are figured on the basis

of the regular payroll week.

There is no compensation for time lost on Sundays or legal holidays, or from overtime or any time which would have been paid for at overtime rates. Likewise there is no compensation for shutdowns ordered by the civil or military authorities or for absences resulting from "a vote, decision, or action by or disability of the em-

ployees themselves, individually or collectively."

Lay-offs due to lack of work.—Any employee of the company who is not on a monthly salary or specifically employed in a temporary position is entitled to share in the fund, so long as the amount of money in the unemployment fund is in excess of \$50,000 and so long as the total charges against the fund during any 12 consecutive calendar months do not exceed \$50,000. There are no restrictions as to the length of time a worker must be employed before benefiting by the plan. Employees laid off for one-half day or over receive 80 per cent of their regular wages if they have dependents and 60 per

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cent of their wages if they have no dependents.<sup>3</sup> In the case of piece or bonus workers the average earnings during the previous six months are used as the basis for the computation. Employees on a weekly salary who are laid off are paid out of their salary and not out of the unemployment fund until their total time out during the calendar year exceeds 96 hours. After that, they receive compensation out of the unemployment fund for any wages lost on account of lay-offs even though their absences when their salaries are stopped may be due to other causes, such as sickness, etc.

So far as is possible when it is necessary to lay off workers, a large number are laid off for a short time, rather than a few for a long

Workers temporarily employed outside the plant.—Whether or not they have dependents, employees who secure temporary work outside are entitled to an amount equal to 10 per cent of their outside earnings plus 90 per cent of their earnings with the company, the unemployment fund being used to make up the difference between this This provision holds good amount and what they receive outside. so long as the unemployment fund does not fall below \$50,000 and the total disbursements during any consecutive 12-month period do not exceed that amount. When such employee works only part of the time, the total time is divided into two parts on the basis of The hours worked, if less than 48 during the 48 hours to the week. week, are considered as one part and figured as above stated, and the rest of the 48 hours are figured and paid as idle lay-off time at the 60 and 80 per cent rates. If the employee works outside more than 48 hours during the week, then the wages for the time in excess of 48 hours belong to the employee and are not counted either as an offset to the money due him from the unemployment fund or as a basis for the 10 per cent incentive or reward.

Employees who are laid off for over six days at a time are required to report to the company once a week in regard to their effort toward securing an outside job. Should an employee of the company accept a permanent job outside, his compensation from the fund, of course, ceases. Whenever an employee has held a job outside for six days or more, the unemployment fund committee may decide whether or not the company is warranted in continuing payments, and if so, at what rates. Any employee who makes a false statement with regard to the status of his outside employment forfeits his right to reemployment and to receive further benefits from the fund.

Dependents are defined as follows: "Employees who have living with them children of their own under 16 years of age, wives, or husbands, none of whom are regularly employed for pay, shall be considered as having dependents. Any other employee may be considered as having a dependent, provided he (or she) can show that at least one other person besides himself (or herself) is dependent upon him (or her) for her (or his) sole means of support. Likewise, in any family or group of people living together as one family, where two or more people are solely dependent upon two or more other people and where the number of wage earners is not in excess of the number of dependents, any person who habitually contributes to the family fund the equivalent of the support of at least one other person besides himself (or herself) may be classed as having a dependent. Thus, if two brothers support two parents and themselves out of a common fund, each brother is entitled to all the privileges he would have if one brother supported the mother and the other the father. When two or more members of the family, who are jointly responsible for the support of one other person besides themselves, are laid off at the same time, then the last one laid off, or if more than one are laid off at the same time, the one who would be paid the most, may be classed as having a dependent. The unemployment fund committee shall decide all doubtful cases and arbitrate all disputes arising under this rule which can not be settled through the regular channels. All statements of the employees in regard to dependents shall be in writing and signed by the employees. Any employee who makes a false statement of fact in regard to dependency shall (1) return to the fund all moneys acquired under false pretenses and to which he (or she) was not entitled or in default thereof shall forfeit his (or her) job, and (2) forfeit the right to receive any compensation from the fund for a period of three years dating from the time of the false statement."

Transfers within the plant.—Employees who are transferred to other work within the plant are paid their full hourly wage if they are timeworkers and 90 per cent of the preceding six weeks' average, if piece. workers. Preference in transfers or lay-offs is given to employees longest in the service of the company, i. e., employees longest in the service are transferred or laid off last. If the primary motive in transferring an employee from one department to another is to retain his service with the company for the benefit of the latter, the cost is considered part of operating expenses and is not charged against the unemployment fund. If the transfer is made merely to avoid unemployment, the employee's earnings on the new job are charged to operating expenses and the difference between the earnings and the guaranteed wage is made up from the unemployment fund. much as employees without dependents have the most to gain by transfers as compared with lay-offs, it is important to avoid discrimination, and all cases where there might be grounds for prejudice or favoritism are therefore decided by drawing lots.

After an employee has been paid from the unemployment fund on the basis stated above for 30 consecutive days, the unemployment fund committee may review the case and decide whether or not

further payments on this basis are warranted.

Full-time rate not guaranteed.—It will be noted that the fund does not guarantee the regular wage rate. It was felt that at least during the experimental stage the burden of employment should be shared jointly by the employer and employee and the fund used as far as possible in relieving the more acute distress from unemployment. Furthermore, this coinsurance feature has a healthy psychological effect upon the worker in that it does not deprive the individual of all

responsibility as to his own financial security.

Discharges.—The company retains the right, if it deems best, to discharge on certain grounds, but discharge because of shortage of work is regarded as a last resort and to be utilized only when the shortage can not be considered temporary. Discharges may be made, without notice, for misconduct or violation of important factory rules. Such cases do not come under the unemployment fund Discharges may be made for inefficiency, general unreliability, poor attendance, etc., upon one week's notice or pay in lieu thereof. cost is charged to operating expenses. In doubtful cases, when inefficiency can not clearly be shown, two weeks' notice or two weeks' pay is allowed, the second week's pay being a charge against the unemployment fund. Such discharges are made, if possible, during prosperous times. Employees may be discharged for lack of work in which case it is necessary to make a distinction between discharge and lay-off. If, when an employee is discharged, it is not expected that he will be reemployed at any time, his case would not fall under the provisions of the unemployment fund. He would be given two weeks' notice or two weeks' pay, and the cost thereof would be charged against the operating expenses of the company. Employee who, when they were employed were promised only temporary work are discharged when the volume of work fails without expense to the unemployment fund. On the other hand, if an employee is laid of even though for some period of time, when, on account of his experience and skill it is expected he will be reemployed when business is better, he would receive unemployment pay according to the terms of the plan.

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Control of the fund.—The administration of the fund is in the hands of an unemployment fund committee of four persons, appointed annually, and upon which management and employees have equal The custody and investment of the fund, however, representation. is in the hands of three trustees, appointed annually by the directors of the company. The committee has full power to use the fund as the rules provide, with such modifications or new principles as are decided upon by the works council and the management jointly. tions of this committee include also the study and recommendation of methods of preventing and relieving unemployment. It is further authorized to investigate the conditions which have led to unemployment and to recommend to the general works committee and the management steps to prevent its continuance. It may recommend the substitution of training and education of employees for actual unemployment. Annual reports on the use of the fund are required. Amendments.—The plan may be altered at any time by joint agree-

ment of the management and the works committee. The rates of compensation are changed automatically whenever the fund falls below \$50,000, or whenever the disbursements during any 12-month period exceed that sum. Likewise the entire plan would be suspended should any government under which the company is working pass a law relating to unemployment insurance. Should the fund fall below \$50,000 payments would automatically cease. No rules have been worked out for the operation of the plan under such a contingency, but it is the duty of the unemployment fund committee to keep in touch with the condition of the fund and allow sufficient time for new recommendations, should that danger point be reached.

Cost of operation.—Since 1916 the fund has accumulated approximately \$150,000. Benefits were first paid in 1920. During the four years, 1920 to 1923 (November), about \$2,800 was paid out of the fund for lay-offs, transfers, etc. This sum is less than one-half of one

week's average pay roll.

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vork, narge ected inder two d be oyees vork, o the l off, ience er, he The per capita cost of the plan in the year of greatest depression of the industry, 1921, was about \$8. For the year 1923 (11 months), the average cost was 37 cents per worker. At no time has the cost of the plan equaled 0.1 per cent of the pay roll. Following is a summary of available data showing the status of the fund and the cost of operation of the plan during the years the plan has been in operation. There were no data for the number of claims for benefits each year.

Table 1.—AVERAGE NUMBER OF EMPLOYEES ELIGIBLE FOR BENEFITS, TOTAL EXPENDITURES FOR ALL BENEFITS, AND AVERAGE EXPENDITURE PER EMPLOYEE.

Period ending—	A verage number of em- ployees eligible for benefits.	Total pay roll for eligible employees.	Total days absent.1	Amount available for benefits.	Total expenditures for all benefits.	A verage expendi- ture per em- ployee.
1920. 1921. 1922. • 1923 (11 months)	2, 776 2, 809 2, 950 3, 270	\$3, 335, 966 3, 174, 083 3, 354, 315 3, 453, 157	(3) 1,633 55 107	\$147, 237. 18 144, 767, 41 121, 778, 39 120, 268. 24	\$2, 469, 77 22, 989, 02 1, 510, 15 1, 224, 72	\$0. 80 8. 18 . 52 . 37
Total		********			28, 193, 66	

<sup>&</sup>lt;sup>1</sup> This figure does not include transfers, etc., the cost of which is included in total expenditures for all benefits.

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The successful operation of this plan and its low cost are due not only to the carefully worked-out and detailed plan of operation, but in larger part to the careful employment policy of the company and the methods of regularization of employment which have been carefully devised and applied. Seasonal employment has been looked upon as a factor largely controllable, and numerous ways of meeting the situation have been adopted. Cyclical unemployment has been planned for and met intelligently, and its unfortunate results have been mitigated to some degree.

Methods of regularizing employment.—The unemployment fund may be used to provide extra work within the plant in making up goods for stock. It was found that upon a large class of goods it was cheaper to manufacture stock and store for long periods than to pay unemployment relief for idleness. This class is determined by the ratio of labor to total cost. So this committee may set aside a part of its unemployment relief fund as a special depression insurance fund, to be used under appropriate rules to finance the making for stock of larger quantities of certain staples than could be made without the help of the fund.

Seasonal unemployment.—Seasonal unemployment in this plant is considered to be largely controllable by the employer, and by budgeting unemployment relief in the manner described above and working with its employees in testing out relief methods, the company is endeavoring to discover the principles which control the field. Although the plan is still in the experimental stage, tangible results have been secured in the control of seasonal employment by the application of six principles. These principles and the manner of their application are outlined by the company as follows:

1. Reduction of seasonal orders by getting customers to order at least a minimum amount well in advance of the season.

This has been accomplished partly by merely asking for the business, partly by persuasive salesmanship, partly by promising a greater security as to delivery, and sometimes by reducing prices to "buy-early" customers. For example, originally, box production was exceedingly seasonal. Orders would not come in in any large numbers until late in the summer, and then there would be a painful rush of work until Christmas. As a result of our modified sales policies, however, we now secure a considerable number of our holiday orders in January, and even get a fairly large proportion of orders for Christmas delivery in November and December of the preceding year. Similar results have been accomplished in the crêpe line.

2. The increase of the proportion of nonseasonal orders with a long delivery

These orders were either "hold order," not to be delivered until a certain date, or orders to be delivered when ready. This increase is brought about by the same methods of selling that proved effective in securing the transfer of the seasonal orders to the next seasonal period as outlined in (1) above.

3. The planning of all holiday and other stock items more than a year in

The general method is as follows: Over a year in advance a detailed statement of just what holiday and other stock items are wanted is placed with our warehousing department. The warehousing department works out a minimum monthly schedule, based on the distribution of the last year's sales. Except that production must be kept up to this minimum, the producing department can distribute it as seems best.

4. The planning of interdepartmental needs well in advance. Thus the orders of our gummed label department for boxes are placed at the beginning of the year

By the means suggested in the foregoing principles, we have converted all possible seasonal and time-limited orders into articles on which we have long

delivery time, and can thus produce according to a schedule based on production rather than delivery needs. It would, however, probably be impossible to realize benefits as fully as at the present time if we were in a trade characterized by sharp style variations; but even under such conditions it is probable that some benefits should be received.

5. The building up of "out-of-season" items and the varying of our lines so as

to balance one demand against another.

For example, we are developing new box items of a sort that are not used for holiday purposes, so that we can make and sell them for delivery at times when the holiday work is light. Items, too, that are securely staple in nature can safely be made at any time for stock. It is our policy to increase up to the point of a healthful adjustment the number of such items. Measures of this type are attempts to build the normal business of a concern up toward the peak level of the busy season. They aim not at removing the peaks, but at filling up the hollows. They constitute a healthy, leveling-up process, which achieves a positive increase of the total output, at the same time that it decreases the fluctuations.

6. The distribution of these long-time orders and out-of-season staple items in such a way as to fill up periods when the work on quick delivery items is small

so as to bring a more uniform flow of work.

This is really not so much a separate principle as a further step in the achievement of the benefits made possible through the principles already suggested. Besides these methods of decreasing the pressure of seasonal demands, and evening out the inequalities, we can meet seasonal employment by conforming ourselves somewhat to it. We can balance the decrease in work of one department against the surplus of another. We can transfer operatives not needed in one line to another where there is work on hand. In doing so, we made it a rule to transfer our operatives to the same off-season work each time, so that they will develop proficiency in these off-season trades. We can go a step further; we can plan to adjust the work of one department so as to use to advantage the unemployed operatives of another department. An illustration of this is found in the sample work of one of our departments. This requires little special training, and can be handled well by the box makers in their dull season. As a matter of deliberate policy, this work is always saved up for December and January, when the slack season of the box makers is at hand. These methods often work incidentally to our advantage in other ways besides those which led to their adoption. tend toward producing a more versatile operating force, from whose numbers emergency transfers may at other times be more easily made. They also afford emergency transfers may at other times be more easily made. the workers a respite from occupational monotony.

As a still further measure, we have even arranged to transfer operatives to outside industries. This course of action we resort to only in extreme cases. It has the disadvantage of relaxing the bond of connection between the employee and our company; but it has been found to preserve a certain relation of considerable advantage over complete discharge, or incurring the risk that employees whom we might wish later to take on again might be led to obtain other continuous employment during the period while we were unable to furnish them

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Cyclical unemployment.—The methods of meeting the business depression worked out by this company are described by a member of the company, as follows: 4

In prosperous periods we must prepare for depression. In our company we have drawn many curves of our past experiences and we pay close attention to the economic bureaus which give curves condensing the vital statistics of the present situation. In this way we were able to make the estimates, very simply and without any particular genius, that allowed us in January, 1920, when everything was overselling 60 per cent, to make adequate preparation for the depression which struck us in November. It was not difficult, because we had men in our research department whose duties were to study, watch closely, and figure where we were in the business cycle.

We study the cycle with reference to the work of several of our departments. This does not mean that we always get it right. We do not know exactly when changes are coming and do not much care within a few months. Of the great group of commodities which constitute more than half our purchases we buy to

<sup>&</sup>lt;sup>4</sup> Annals of the American Academy of Political and Social Science. V. 100, March, 1922, p. 103.

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have smaller quantities on hand when prices are well above a normal line. We purchase a larger stock of standards when the price of any commodity is below its normal line. During war times the normal lines go to pieces, but war times are exceptional. Most of the time those lines are fairly easy to determine. When prices go much above that line, we buy from hand to mouth; when below, we buy more generously. We can not help winning in the long run on this policy. Our advertising is managed on a similar basis. The advertising appropriations are made on a five-year basis and the manager is supposed to reserve his advertising appropriation in good times and blow himself in hard times. This is the principle applied in every department of our organization.

Unemployment Sinking Funds in Two Textile-Finishing Establishments.

THE unemployment insurance plan in effect in two textile finishing plants is a part of a general partnership plan which provides life insurance, health benefits, accident insurance, and profit sharing By the unemployment feature of the plan two sinking funds are provided, designed to make the wages of both capital and labor At the end of each year the board of directors of the company sets aside from the net profits of the company, if any, a sum sufficient to raise the sinking fund for capital's minimum wage to an amount equal to 6 per cent on the invested capital. This would amount to about \$85,000. After this is accomplished, a further sum, to the amount of \$85,000, is set aside to establish a sinking fund to be drawn upon by labor when the company is unable to furnish employment. Both funds are to be raised before the division of any profits, and both bear interest at 6 per cent. Interest on labor's fund may be used, in the discretion of the board of operatives, for sick benefits, etc. Interest on capital's sinking fund is at the disposition of the board of directors.

From labor's sinking fund, known as the unemployment guaranty fund, each operative who has been on the regular pay roll of the company for 12 consecutive months receives half pay for all time lost due to employment for less than 48 hours a week, not including overtime. These payments are continued until the fund drops below \$50,000 or a figure similarly proportionate to the pay roll, when half time is paid for all time lost under 35 hours per week.

At least 24 hours' pay per week is guaranteed until the fund is exhausted. In weeks in which holidays occur the 48-hour limit is reduced by the number of hours lost by such holiday—the 35-hour limit is not affected. Six holidays are counted. The period during which benefits may be drawn is limited only by the fund.

The plan provides that at the end of the year the amount in excess of \$85,000 in the employee's sinking fund is to be distributed as profits to officers and employees of the company, it being understood that the \$85,000 bears a ratio to the pay roll and may be increased or decreased accordingly.

An operative forfeits his share of the fund if he is discharged for crime or neglect of duty (provision is made for appeals from discharges), or if he leaves without giving one week's notice or without satisfactory agreement with his foreman.

The operation of the fund is under the jurisdiction of the board of management made up of 12 members, 6 of whom are elected annually by the board of directors and 6, representing the operatives, selected by the board of operatives from among their number.

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Certain important changes were found necessary in the plan. The original scheme fixed the maximum to be retained in the sinking fund at \$60,000 and provided that all employees who had been employed for two consecutive months during the year might benefit. In 1922 the maximum amount to be retained in the fund was increased to \$85,000 and employment by the company for 12 months before participation was made a requirement. The financial stability of the company demanded also that a change be made in the method of setting aside the fund. The plan originally provided that the board of directors should set aside 15 per cent of the net profits of the company, whenever such an amount should be determined, as an employee sinking fund, and a similar amount should be set aside as a fund to guarantee capital its minimum return, 6 per cent, during periods when it was not earned. The revised plan provides that the sinking fund for capital's minimum wage is to be built up to 6 per cent on its investment (this would call for about \$85,000) before the employment guaranty fund is set aside. The latter fund is set aside, however, before any division of profits.

Because of the short period during which the plan has operated the fundamental changes made in it, and the period of depression and reorganization of the companies through which it has functioned, detailed statistics of this plan are not very significant.

Since the fund is made up of surplus earnings, obviously the fund is not increased when there are no earnings. Unemployment during the slump following the peak years of 1919 and 1920 was more severe than ever before in the experience of the companies. Since they sell service, not merchandise, these companies are able to control only to a very limited extent the question of regularization, i. e., of operating or not operating.

In one plant the fund available for benefits at the beginning of 1920, when payment of benefits began, was approximately \$107,400. Three years of depression followed. During the first year of operation about 7 per cent of the total annual pay roll was distributed in benefits. By June, 1923, the fund was exhausted.

In the other plant the plan has been somewhat more successful. Payments of about 2½ per cent of the total annual pay roll were made during the first year of its operation, between 400 and 500 operatives sharing in the distribution and receiving an average of about \$35 each. Two per cent of the total pay roll was paid out in 1921, approximately 2.4 per cent in 1922, and about 0.9 per cent in 1923. There was probably as much unemployment in 1923 as in the previous years, but because of the sliding scale upon which the fund operates, the actual drafts upon it were not so heavy.

### Unemployment Compensation for Discharged Employees.

A NOVEL plan of compensation during unemployment resulting from dismissal for any cause was recently adopted by an important railroad company operating about 900 miles of road and employing approximately 14,000 workers. The scheme is a feature of a comprehensive group-insurance plan, based upon a contract between the company and a commercial insurance carrier, which became effective on January 1, 1922.

The insurance plan of this company is based on the idea that there are five major hazards against which the employee and his family should be protected if he is to reach his highest efficiency. They are accident, sickness, superannuation, unemployment, and death. The insurance plan now furnishes some sort of protection against all of these contingencies.

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The company insures at its own expense, for a sum of \$500, the lives of all employees who have spent two or more years in the continuous service of the company. The company likewise bears part of the cost of such additional life, accident, or sickness insurance as the employees wish to take out in groups, thereby lowering the cost to the individual.

The provision for unemployment compensation applies to employees with 24 months or more of continuous service who subscribe for and continue to carry at least two of the three forms of contributing insurance to which they are eligible. Such employees are automatically insured at the company's expense against unemployment resulting from dismissal for any cause, in the amount of \$15 per week for a period not to exceed six weeks or for so much of that time as the employee is unable to find employment. Employees whose average annual compensation for the preceding two calendar years of service has not been more than \$1,000 are paid \$10 per week for the same period. The plan does not cover lay-offs.

The risk involved was determined by a careful analysis of the company's turnover records over a period of 10 years, the data indicating that after two years of service comparatively few men were discharged for cause. Although the company assumes all charges under this plan, employees may be said to bear a part of the cost of protection against unemployment in that they are required to subscribe to two forms of contributory insurance in order to benefit by it. The cost per employee is small, however, the amount depending upon the amounts and kinds of insurance to which he subscribes. The minimum cost per month is 84 cents. This amount covers accident insurance and life insurance to the amount of \$500.5

In the event of claims under the unemployment insurance the individual employee presents the facts to his former immediate superior and fills in a form giving information as to insurance carried while employed by the company, length of service, cause for leaving the service, efforts to obtain employment and results thereof, which is then analyzed by the head of the department in which the worker was employed, and if the facts are as stated the form, together with his recommendations, is forwarded to the assistant to the general manager for personnel.

Of the approximately 14,000 employees in the service of the company, about 10,600 have been in service over two years and are eligible for unemployment insurance. Over 75 per cent of all classes subscribe for some form of insurance under the plan. Since the employees longer in the service have in practically all cases subscribed to insurance, it is probable that practically all of the 10,600 are eligible for the unemployment insurance.

<sup>&</sup>lt;sup>5</sup> The cost per month of sick insurance is \$1.26, of accident insurance, 24 cents. The cost of \$500 life insurance (in addition to a \$500 policy furnished by the company) is 60 cents per month. Life insurance may be taken out to the amount of the employee's salary to a maximum of \$5,000. The cost of this maximum policy is \$3 per month. Monthly cost for life insurance varies, therefore, from 60 cents to \$3.

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During the 15-month period, April 1, 1922 to June 30, 1923, 17 claims for unemployment insurance benefits were granted, or 1.1 per month, with a total cost to the company of \$1,332.86. Fifteen of the 17 claims were for the maximum period of 6 weeks. The following table shows the occupation of the beneficiary, period of service, cause of dismissal, period for which benefits were claimed and granted, together with the weekly and total benefits paid in each case:

TABLE 2.—PERIOD OF SERVICE, CAUSE OF DISMISSAL, AND UNEMPLOYMENT BENEFITS CLAIMED BY AND GRANTED TO DISCHARGED EMPLOYEES OF A RAILROAD COMPANY, APRIL 1, 1922, TO JUNE 30, 1923, BY OCCUPATION.

Occupation.	Period of service.	Cause of dismissal.	Period for which benefit claimed.		Week- ly bene- fits.	Total bene- fits.
Car oiler	July 17, 1919- May 13, 1922.	Neglect of duty				\$90.0
Clerk	June 25, 1917- Sept. 27, 1922.	Misuse of company's funds.				90.00
Waiter	1918-Oct.16,1922.	Dishonesty	do	do	10, 00	60, 00
Janitor	Apr. 17, 1919- Oct. 24, 1922.	Absent without per- mission	Nov. 21, 1922-	do	10.00	60, 00
Trainman	May 22, 1916- Oct. 17, 1922.	Making false state- ment.	Nov. 27, 1922.			60, 00
Clerk	Apr. 20, 1916- July 6, 1922.	Refused to obey in-	July 7, 1922- Aug. 17, 1922.	do	15, 00	90, 00
Crossing watchman	1914–July 7, 1922	structions. Neglect of duty	A1107. 17. 1922.	1		90, 00
Clerk	Feb. 25, 1918- July 4, 1922.	Insubordination	Aug. 4, 1922.	do		90, 00
Stationary engineer	June, 1903-Oct. 31, 1922.	Unsatisfactory service	Dec 4 1922	4\$ weeks	15. 00	72. 86
Steward	June 1, 1915- Feb. 1, 1923.	do	Mar. 14, 1923.	6 weeks	15, 00	90, 00
Foreman	May 3, 1911- Oct. 17, 1922.	Insubordination	Oct. 30, 1922.	2 weeks	15. 00	30, 00
Molder's appren- tice.	Aug., 1918-Jan. 4, 1923.	Refusal to obey orders	Feb. 14, 1923.	6 weeks		60.00
Storeman	Oct. 17, 1918- Jan. 3, 1923.	Selling intoxicants while on duty.		do		90.00
Baggage agent	Dec. 1, 1908- Jan. 22, 1923.	while on duty. Insubordination	Mar. 5, 1923.	do		90. 00
Trainman	Dec., 1917-Dec. 13, 1922.	Violation of rule G	Jan. 25, 1923.	do		90, 00
Storehelper	Sept., 1918-Jan. 3, 1923.	Selling intoxicants while on duty.	Jan. 4, 1923- Feb. 14, 1923.	do	15, 00	90, 00
Engineer		Unsatisfactory service		do	15, 00	90, 00

One of the most frequent sources of irritation among discharged workers is the feeling of resentment, justified or not, against the foremen under whom they worked. The payment to a discharged worker amounts to a penalty on the company if a foreman discharges a worker for insufficient reasons. It was considered, therefore, that the responsibility of the company in assuming at least partial support if the employee had to hunt for a new job would deter the foreman from making unreasonable discharges, and that an employee, realizing this fact, would be less inclined to magnify into abuse personal incidents between himself and the foreman, which otherwise he might consider as a personal injury. The figures for claims seem to bear out this theory.

Preliminary effects of this insurance which have been noted by the company are as follows:

<sup>1.</sup> Greater care has been exercised in the investigation of cases of employees before dismissal has taken place.

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2. It has had a stabilizing effect upon the organization, because of the necessity of being in the service at least two years before becoming eligible for unemployment insurance, and the knowledge on the part of the employee that if he has the misfortune to be dismissed after that period those dependent upon him will have a measure of protection until he can normally secure employment elsewhere.

3. It has resulted in subscriptions to other forms of insurance under the plan, as an employee's eligibility for unemployment insurance is dependent upon

subscription to at least two of the three forms of insurance.

#### Employment Guaranty in a Cloth Hat and Cap Factory.

A UNIQUE plan guaranteeing payment for 48 weeks' employment each year became effective on October 22, 1923, in the plant of

a middle-western firm manufacturing cloth hats and caps.

If the factory is in operation 48 weeks or more, the operative receives only his regular wages, but if the factory operates only 47 weeks, the employee will receive 1 per cent of his yearly earnings in addition to his regular wages. If the factory is in operation only 46 weeks, the employee will receive 2 per cent additional; if it operates 45 weeks, he will receive 3 per cent additional, and if it operates but 44 weeks he will receive 4 per cent additional. In case the factory is in operation 43 weeks or less each operative is to receive in addition 5 per cent of his year's earnings.

A sum equal to 5 per cent of the pay roll each week is given by the firm to the union to be kept until the number of weeks of employment for the ensuing year is determined. The entire amount is returned to the firm in case 48 weeks' work is provided, 4 per cent

is returned if 47 weeks' work are given, and so on. 6

There is a guaranty of production in this shop.

When the guaranty-of-employment plan went into effect, the union agreed to a gradual reduction of the number of employees from the then existing force of 84 to about 65, during the period of one year. The adoption of the guaranty-of-employment plan was not conditional upon this reduction in force, however.

### Full-Time Work in a Paper Manufacturing Plant.

SINCE 1921 an eastern company manufacturing fine writing papers has, by guaranteeing full-time work to those of its employees who have completed five years or more of continuous and satisfactory service, attempted to remove the hazard of unemployment from such

employees.

An employee who has completed such a term of continuous, satisfactory service, may, upon application, be transferred from the pay roll to the company's salary roll at an agreed salary. His application must be approved by the foreman and manager of the department in which he is working, after recommendation of two salaried workers previously enrolled, before being accepted by the company. A salary is agreed upon for a period of four weeks, payable weekly. Adjustment of his pay, which is subject to changes under any conditions affecting a general adjustment of wages, is made every four weeks on the basis of the operation for that period of time, with any overtime he has received during that period offsetting a like amount of time when

<sup>&</sup>lt;sup>6</sup> This plan has since been adopted by a second firm in the same city, and negotiations are in progress with other firms looking toward its adoption.

he might not have been employed. If, by reason of the plant not being in operation, the hours worked are not sufficient at the regular wage to equal or exceed the amount of the salary, he is paid the salary for the period, the company making up the difference. In case the plant is shut down on a regular working-day, he is expected to report for duty unless specifically excused from so doing by the foreman or production manager, and it is understood that he will do such work, other than that on which he is regularly employed, as may be mutually agreed upon by him and the foreman or production manager. Compensation for loss of time due to legal holidays is not covered.

The company aims to furnish full-time work, not merely full-time wages. If full-time wages are guaranteed, it is the belief that there is danger of the employee feeling that he is protected through some sort of gift or charity. The company therefore furnishes work whenever possible, so that when the employee receives his wages he may feel that he has earned them. It is also made plain to him that to cover the expense of paying his wages for a day or two now and then when no work is furnished he must expect to produce sufficiently

when he is working to cover this extra expense.

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Employees wishing to benefit by this plan enter into an agreement with the company to this effect. This agreement in no way binds the employee to remain in the employ of the company, and should the worker leave at any time, the agreement immediately becomes void, except that he agrees that thereafter he will in no way interfere, directly or indirectly, with the business of the company. The company reserves the right to terminate this agreement under any conditions which in the opinion of the company make it powerless to continue it. "It is not the intention of the company to exercise this right except in cases of serious fire or other calamity, or conditions beyond our control. Under any such conditions the matter will be fully discussed with you and termination of the agreement will not become effective except after four weeks' notice so long as you remain at work in the employ of the company."

Slack periods in this industry are due to cyclical rather than seasonal depressions for the most part, although there is some seasonal fluctuation, the peaks usually coming in the spring and autumn. The company operates 24 hours per day when it operates at all, and this continuous strain on machinery, equipment, and working space makes possible considerable employment, when the machines are not operating, by way of cleaning up, repairing, etc. Such work, which is not urgent, is left until a period of unemployment, when it can be done by those under full-time agreement rather than by hiring a larger force when the plant is in operation. Other management methods which have tended toward regularization of employment in this plant include sales coordination, adequate storage facilities,

and the close cooperation of distributing agents.

The following data shows the cost of the operation of this plan since its inception in 1921. Column 3 shows the amount of wages paid to the employees who are guaranteed full time, covering the work they do on their regular jobs with the plant in operation. Column 4 shows the amount of wages paid to these same workers for doing work other than their own, when their particular job

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has not been in operation. Column 5 shows the amount paid to the same group for the time when they have been excused from reporting at the mill, covering such number of hours as were not canceled by overtime hours in the settlement at the end of every four weeks.

TABLE 3.—AVERAGE NUMBER OF EMPLOYEES, NUMBER TAKING ADVANTAGE OF GUARANTEED SALARY PLAN, AND TOTAL WAGES FOR REGULAR WORK, OTHER WORK, AND FOR TIME EXCUSED.

Year.	Average number of em- ployees.	Number of em- ployees at end of year tak- ing ad- vantage of plan.	Total wages for regular work,	Total wages for other work when de- partment or plant is not in op- eration.	Total wages for time ex- cused be- cause of no work,
	1	2	3	4	5
1921. 1922. 1923.	501 566 619	. 139 152 186	\$161, 899, 44 231, 753, 44 302, 201, 60	\$34, 190, 19 3, 330 26 4, 482, 46	\$2, 941.96 294.30 2, 696.66

It will be noted that in 1923 the number of employees covered by this guaranty is nearly one-third of the total number of employees. The total pay roll for the entire plant in 1923 was \$875,000. The company estimates that the total cost of the guaranty feature of the plan during that year was about 0.5 per cent of the total pay roll. This percentage is figured on the basis of the wages paid for time when no work was furnished, as noted in column 5, and takes cognizance of the fact that work furnished, other than the regular job of the man employed upon it, could in some cases have been done, under the usual methods of operation, by a cheaper grade of labor. Some portion of the amount shown in column 4 is therefore added to the cost of guaranty.

Employment by this company is contingent upon the signing of an individual contract stating the wage; that the working hours and rules as to overtime established by the company are satisfactory to the applicant; and that "any change made by the company in arrangement of hours, increase of wages, promotions or transfers to other departments, shall not be deemed a waiver of the contract in other respects." The applicant agrees faithfully to observe all rules of the company and to maintain the open-shop conditions of employment.

On the back of the employment application card is printed the following declaration of principles governing the employment relations in the plant:

Neutral territory.—This factory is neutral territory from which all factional differences are excluded. All the employees are expected to work together in harmony side by side for the success of the business and the well-being of all the employees.

Union recognition.—The company recognizes the right of its employees to join any craft or trade union they may wish to be affiliated with, and the fact, if known, of a person belonging to a union will in no way militate against such person when seeking employment.

Collective bargaining.—If an employee wishes to deal with the company through some one chosen to act for him, his desire will be respected, whether such a representative be an officer or agent of his union or merely a fellow workman speaking in the interest of his fellow employees.

The question of discharge, always a troublesome one and particularly so under a system of employment guaranty, is governed in the plants as follows:

Discharges.—Where an employee has given five years of continuous service to the company he shall not be discharged without the case being first submitted to the general superintendent or manager.

Where, in the opinion of the foreman, an employee has neglected his duty, the employee may be suspended, without pay, pending investigation by the general superintendent or manager.

Where the charge is incompetency and the foreman despairs of the employee ever being able to do the particular work he is on, then the employee may be suspended from the particular job he is on until such time as the general superintendent or manager or employment bureau has decided whether or not the employee can be placed in some other work better suited to his capabilities. While suspended for incompetency the employee shall remain on the company's pay roll pending decision as above.

In cases of suspension, the employee shall appear in person before the general superintendent or manager in his own behalf.

For infringement of rules or insubordination, an employee may be summarily dismissed regardless of the length of service.

The company has found this plan to work very satisfactorily in its plants, but feels that the same arrangement might of necessity be unwise for another concern or another industry. "We believe this whole question must be handled somewhat differently in different industries and different plants, with due regard for local conditions, peculiarities and needs, if it is to be handled soundly."

#### Guaranteed Employment.

EFFECTIVE August 1, 1923, a large soap manufacturing concern guaranteed to 5,500 employees in its four largest plants, and in offices located in 26 cities of the United States and Canada, full payment for not less than 48 weeks of employment in each calendar year less only time lost by reason of the customary holiday closings, or through fire, flood, or strike or other extreme emergency.

The guaranty is subject to three provisions:

First. In order to benefit by the employment guaranty the employee must be a participant in the company's profit-sharing plan, by which it is provided that any employee, except salesmen and traveling representatives, who has been in the employ of the company for not less than six months and who is earning less than \$2,000 a year may purchase at the market value the nearest number of full shares of the common stock of the company the total cost of which to him equals or exceeds the amount of his annual earnings. employee pays the company in cash each year after the purchase of the stock, until it is fully paid for, not less than 5 per cent of the amount of his annual wages. Quarterly profit-sharing dividends are paid by the company on the amount of the employee's wages at the rate of 10 per cent for first year of participation, 11 per cent for the second year, etc., the rate increasing 1 per cent a year until after the eleventh year, when it remains stationary at 20 per cent. Approximately 70 per cent of the employees have availed themselves of this opportunity.

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1. If the transfer is the result of a full or partial shutdown, or a temporary cessation of work in the department in which he is regularly employed, or an emergency in the department to which he is transferred, it shall be regarded as temporary, and the employee shall receive, during such period of transfer, his regular wage rate per hour.

2. If the cause of the transfer is the permanent termination of the particular department, or the particular job where he has been employed, it shall be officially recorded as a permanent transfer, and the employee shall receive the wage

rate which prevails for the work to which he has been transferred.

By the terms of the third provision the company reserves the right to discharge any employee at any time for cause, and further reserves the right to terminate or modify the guaranty in whole or in part at

any time after serving six months' notice to that effect.

If it should become necessary because of dull times to reduce the size of the force, the company states that a 10 or even a 15 per cent reduction in personnel could be made without cutting into the ranks of the old employees, because this percentage would represent the natural turnover—those who retire, leave, or are discharged.

No reserve fund has been necessary to finance the plan because

there has been little additional cost involved.

The products of this company are household necessities. They are sufficiently varied to fill all household needs in this particular line. Years of skillful advertising and standardization of quality have given the products of the company recognized advantage. The result of this policy would naturally be a steady and increasing demand which would simplify the problem of regularization. Nevertheless, the company was faced with the problem of peak sales and depression largely because jobbers purchased heavily at certain times of the year, making it necessary to operate at high speed for a few months. During the periods of depression which followed while the heavy purchases were being consumed, hundreds of employees were laid off.

About three years ago the company put into effect a direct-toretailer sales policy which brought about an even flow of business, and made it possible for plants and offices to operate at practically the same speed the year round. The company now has 26 district sales offices and distributing centers scattered from Montreal to Atlanta and from Boston to San Francisco and Seattle with widely scattered and strategically located interior distributing points.

There was, in the opinion of the company, little variation in the daily consumption of its products. This being the case, the daily production should equal the daily consumption, the variation in the demands upon the company being due to the varying size of the stocks of the company's product carried by distributors and dealers. Sales were therefore estimated for the ensuing six months and the daily production based upon this estimate. By the middle of the month the brands to be produced the following month were scheduled, allowance being made for errors due to estimates made the preceding month.

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The wide differences between the daily or monthly orders received and the daily and monthly production are taken care of by adequate warehouse facilities and by controlling deliveries to the dealer so as to maintain his stock upon an approximately normal basis. Dealers were found to be quite ready to cooperate in this plan. The dealer's order is received and entered for whatever quantity he desires to buy and the company desires to sell, but his deliveries and payments upon that order are made as his trade demands the goods, and he, of course, is saved the investment and storage of unnecessary stocks.

An adequate supply of raw materials for the company is made certain by the fact that it controls in large part the supply and transportation of its raw materials. Unemployment through lack of a supply of raw materials is therefore obviated. Industrial engineers who are constantly engaged in analysis of factory operations and study of distribution and warehousing problems have eliminated unnecessary work and found methods of utilizing a full-time labor force to the best advantage.

During two months' operation of the plan 60 employees were transferred to other than their regular work and under the terms of the scheme received their previous rate of pay. The following table shows the hourly rates at which these workers had been employed at their regular work, the rates earned on the jobs to which they were transferred, and the amounts made up by the company to fulfill the terms of the guaranty:

TABLE 4.—REGULAR AND TEMPORARY HOURLY WAGE RATES AND AMOUNT OF GUARANTY PER HOUR.

Group.	Regular hourly rate.	Tem- porary hourly rate.	Amount of guar- anty per hour.
Group 1	Cents. 61. 0 72. 5	Cents. 47. 5 61. 0	Cents. 13. 5
Group 3	50. 0 52. 5	48. 0	5.0

With respect to the adaptability of such a plan to other industries one of the members of the company says:

I do not think there is anything peculiar in the soap business that makes such a plan more adaptable to it than any other industries. I believe that in the very great majority of industries the average annual consumption is approximately the same, without much fluctuation from year to year, and that the problem of providing for the distribution and warehousing is not a difficult one to work out if study is centered upon the special industry. I believe, from the economic side, the plan is sound. With proper knowledge of the business, shutdowns should be so exceptional that the corporation could well afford to pay its wage earners during such period. The advantage of a regular production and a satisfied and permanent force of workers would easily more than offset such possible shutdown expenditures.

## Saving for Unemployment, in a Clothing Factory.

A SAVINGS plan operated to encourage employees to provide for their possible unemployment has been made by a Cleveland clothing firm. Since January, 1918, this company has awarded regularity and faithfulness of attendance by its employees with a length-

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of-service bonus. After the first year of service 5 cents a day is paid an employee for every day of attendance consisting of not less than 3 hours' work. This sum increases 5 cents at the completion of every subsequent year, until 30 years' service bonus has been earned or until the recipient becomes 60 years of age, when the daily award remains stationary.

The length-of-service bonus is in lieu of any pension obligation. It is optional with the worker whether or not he will deposit this amount regularly in the pension and unemployment fund, where it

earns 4 per cent interest.

Whenever the larger part of the service bonus is deposited in the pension and unemployment fund account, the amount credited is available as an unemployment fund for that individual, and where unemployment due to shutdown or lay-off occurs, amounts equivalent to 50 per cent of the earnings of an 8-hour day at the average base rate may be drawn against the individual's account for any days of unemployment in excess of 20 occurring in the 6 months immediately preceding or for any consecutive days of unemployment in excess of 10 consecutive days. For this purpose a day of unemploy. ment for an individual is any complete day of lay-off or shutdown which otherwise would have been a regular working day. Saturdays, holidays, vacation, and inventory days, not to exceed 3 days in any six months, are not considered days of unemployment. Any individual may deposit such additional amount as he may desire in addition to the service bonus. Such additional deposits, however, are subject to the conditions and considered a part of the pension and unemployment fund account.

The so-called unemployment insurance feature was not introduced until November, 1922, and the company reported on November 1, 1923, that it had not been necessary to utilize this feature up to that time.

Joint Funds in the Lace Curtain Manufacturing Industry.

A PLAN for a joint out-of-work fund was adopted by a Scranton, Pa., lace company and a local union of the Amalgamated Lace Operatives of America, on July 1, 1923. This plan was an outgrowth of an out-of-work benefit plan which the union had main-

tained since 1915.8

The object of the joint out-of-work fund, as it is called, is to guarantee a minimum wage of not less than \$15 per week to all members of the local branch union in good standing. The fund is supervised and operated by a board of managers consisting of two representatives of the company and two representatives of the union. The board of managers meets once a month, during regular working hours. Union members contribute 50 cents each week to the fund, the amount being collected by the check-off method, i. e., it is deducted from the pay roll. An amount equal to the operatives' total contribution is paid by the company. A member is not assessed unless he has earned a minimum wage of \$15 for any one week. In case an operative earns less than \$15, the benefit increases his earnings to that amount. For example, if a member earns only \$6.82 a week, \$8.18 is added from the fund to this wage to make his total earnings \$15 for the week.

<sup>&</sup>lt;sup>8</sup> A plan practically identical was adopted on Nov. 1, 1923, by another local of the same organization and a lace manufacturing company in Kingston, N. Y.

Benefits are paid for the time spent in waiting for orders, repairing of breakdowns, tieups, etc., but no benefits are paid for vacations or shutdowns or in case of a strike or lockout. There is apparently no limitation upon the number of weeks for which benefits may be paid. If required, members must report for work up to Friday noon to receive benefits.

All benefit claims are passed upon by the shop committee, which decides on or before Tuesday of each week the amount of benefits to which each member is entitled for the previous week. The committee turns in to the board of managers the names and amounts to be paid, on a printed form provided for the purpose, so that each member of the fund entitled to benefits may be paid by check on Wednesday. Any dispute between the shop committee and any member of the fund is referred to the board of managers, whose decision is final.

The fund is deposited in a national bank, and may, at the option of the board of managers, be invested in short-term United States Government bonds. No funds may be paid out unless on the signatures of two members of the board of managers, one a representative of the company and one of the union.

Amendments to the by-laws may be made at any time, if jointly agreed upon. The fund may be discontinued at the option of either party, but only upon six months' written notice to the board of managers. In such event the balance held in the fund is to be divided equally between the company and the union.

During the three months' period, July 1 to October 1, 1923, there were 69 members in the local union. Twelve claims for out-of-work benefits were made, and all were granted. A total of \$149.25 was paid out in benefits, or an average of \$12.44 per claim.

This fund grew out of the out-of-work benefit plan of this local union which was started in 1915. At that time \$500 was taken from the general fund and placed in the out-of-work fund. Each member of the local was assessed 50 cents per month to support the fund. Unemployed members were paid \$10 per week, but no man could receive more than \$36 in any one year. Shut downs and vacations were not paid for. On January 1, 1922 the assessments for support of the fund were increased to 50 cents per week. The union paid out in out-of-work benefits between March 1, 1915, when the plan was begun, and July 1, 1923, when the employer made it a joint fund, a total of \$3,687.41. Six hundred claims were awarded to an average membership of 62 persons. The dues paid in accumulated to \$5,216.50 during the period.

Unemployment Benefits in a Plant Manufacturing Varnishes, Enamels, Fillers, Etc.

THE unemployment benefit scheme in this plant is a part of the benefit association plan which covers also life insurance, pensions, disability, and death benefits. The employees of the company are organized in a mutual benefit association. All employees who have completed six months of satisfactory employment with the company are eligible for membership, which consists of three classes, designated as Class A, Class B, and Class C. Class A consists of all employees receiving \$75 or less per month, Class B consists of those employees whose wages lie between \$75 and \$200, and Class C of all

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employees receiving \$200 or over. Dues of the three classes are 50 cents, \$1, and \$2 per month, respectively, collected upon the employee's authorization by the check-off method.

The affairs of the association are administered by a governing board of six members, four of whom are elected by the employees and

two appointed by the management.

The dues, together with specified contributions from the company, support the life insurance, pension, occupational disability, and death benefits. (The company guarantees an annual surplus of \$2,500 for 10 years to maintain the life insurance feature of the plan.) The company reimburses the association for all benefits paid under the unemployment insurance provision.

Employees must belong to the association in order to benefit by the plan, but their contributions are not used for unemployment benefits, since the company bears all the expense of this feature.

If laid off, employees are paid unemployment benefits ranging from one-third to three-fourths of the usual wage for a maximum of 200 days in the calendar year. Holidays are included. Full benefits are paid for the first 100 days, one-half the rate being allowed for the remainder of the period. Unemployment benefits are paid from the first day's absence from any cause not within the employee's control but cease should the employee become eligible for disability benefits.

Benefits are as follows:

		Per day 1st 100 days.	Per day 2d 100 days
Class	A	_ \$1.00	\$0. 50
Class	B	2.00	1. 00
Class	C	4.00	2, 00

The unemployment feature of the plan was an extension of vacation and holiday pay. The company has always given its office employees, after one year's service, two weeks' vacation with pay and pay for holidays. On December 1, 1922, the factory employees came under this ruling. The plan to include shutdowns went into effect on October 1, 1923.

Data are available showing about six week's experience of this company. The factory was shut down for one or two days each week during the six-week period. Ninety-five employees were eligible for benefits; there were 91 claims of 9 days each, and a total expenditure of \$1,343.50, or not quite 4 per cent of the total pay roll for the

period.

This company stabilized production by reorganization of production, sales, finance, and personnel. This was done with the aid of an industrial engineer. It was found possible to cut down the seasonal employment peaks to some extent and spread the work over the year, first, by soliciting export business, knowing that the foreign business would come in between the domestic seasons, and second, through national advertising, which has brought their products into use throughout the year.

As to its unemployment insurance plan, the company says:

We have found that these simple rules for taking care of our employees during periods when the factory is shut down have worked out very well and we look forward to an increased good-will because of them.

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### Unemployment Benefits in a Paper Manufacturing Plant.

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A PLAN somewhat similar to the one just outlined operates in two associated plants of a paper manufacturing company. The welfare association which employees of this company must join if they are to receive unemployment benefits provides also for life, health, and accident insurance. Dues are 30 cents per week. An equal amount is contributed by the company. The expense of the unemployment feature is borne entirely by the company. Only employees who have been in the service of the company for one year are eligible. The company guarantees each member who may be unemployed because of inability of the company to furnish employment of some kind a sum not exceeding \$72 in any one calendar year, this insurance to be paid in such amounts as will insure the member a minimum income of \$9 per week.

In this plan the executive committee, in whose hands the management of the association is placed, is composed of five representatives appointed by the company and having no vote, and twelve members elected by the membership.

All matters of administration are placed in the hands of a standing committee on unemployment insurance, which is composed of five members elected from and by the executive committee.

There is no sinking fund, so-called, for the support of this fund, but a surplus deposited in an interest-bearing account has been accumulated.

Of the approximately 500 men on the company's pay rolls about 300 are members of the welfare association. Some of the remaining 200 are temporary employees employed in construction work, who will never become members. No unemployment benefits were paid out during 1923. This, says the company, "is largely due to the fact that whatever lay-offs were necessary were made with men who had not been with us for the necessary one-year period and therefore were not members of the welfare association."

# Guaranteed Time in the Meat Packing Industry.

THE packing-house worker, while he remains on the pay roll has the assurance, subject to conditions noted below, of 40 hours' weekly pay at regular rates, with such overtime, if any, as he may earn. This plan, which was put into effect in the packing industry prior to the war, had its origin in the uncertainty of livestock receipts and the consequent variation of hours in the service of the butcher gangs, and the desirability of keeping the skilled force intact in order that there might be present, as wanted, experts on the various jobs and the work might be carried on without a break. The guaranty was extended to other departments, although in practice it rarely has application to other than the killing and cutting gangs, since the operations in other departments are more easily adjusted to the anticipated volume of work.

The worker is guaranteed six and three-fourths hours for each day called for work. The guaranty is not applicable to weeks or proportions of weeks during which the men are not called for work. The fact that an employee begins a week does not give him a guaranty of 40 hours' employment for that week. The right of lay-off

is always present. If an employee voluntarily does not work a complete day when work is offered, the guaranteed minimum wage is reduced by an amount equal to pay for the uncompleted portion of the day.

Overtime is paid at the rate of time and one-half for all time worked in excess of ten hours per day or 54 hours per week.9 done on Sundays and holidays by employees who do not regularly work on such days is paid for at the double-time rate. Employees regularly working on Sundays or holidays are paid at the straighttime rate, but they are given one day off in seven.

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#### Proposed Plans.

RECENTLY there have been numerous suggestions for a wider application of the unemployment insurance fund idea by employers and groups of employers. Frederick L. Hoffman, of the Prudential Life Insurance Co., suggests the cumulation of a fund in each industry to meet its own inherent risks. 10 J. D. Craig, of the Metropolitan Life Insurance Co., suggests that one solution of the problem might be to have life insurance companies undertake for employers a trusteeship of industrial depression reserves or unemployment premiums, and agree not only to pay to employees certain benefits under prescribed conditions, but also to assist the employer in stabilizing the business." H. S. Dennison suggests the present need for a joint experiment by employers, through mutual insurance companies.12

A group plan was seriously contemplated in 1921 by a group of business men in Philadelphia who studied the possibility of the introduction of some form of unemployment insurance into their plants. Two points were considered: (1) What kind of unemployment insurance plan would be practicable for such businesses as are included in the group interested, and (2) what information a company should secure with reference to unemployment among its own employees before it undertakes to establish any permanent unemployment

With reference to the first point a study was made of plans in operation and a tentative plan based on existing ones was drawn up.

With respect to the second point, i. e., information necessary, data as to the number of employees and the amount of the p. y roll were secured from the pay-roll records of four companies for a 10-year period, but the inadequacy of the data available for the measurement of the risk led to the conclusion that more accurate information on the subject was needed before an intelligent judgment as to the practicability or usefulness of such a plan could be determined and a form was suggested for the compilation of such data by each of the companies.13

Fifty-five hours in some plants.

10 Economic World, Jan. 27, 1923.

11 Reprint from transactions of the Actuarial Society of America, v. 24, pt. 1, No. 69, p. 17.

12 American Labor Lagislation Review, March, 1922, pp. 31–36. "Depression Insurance—A suggestion of cooperation for reducing unemployment," by H. S. Dennison.

13 Information with respect to a well worked out plan in effect in the plant of one of the companies in this group has reached the bureau too late for inclusion in this study. Details of this plan will appear in a forthcoming issue of the Monthly Labor Review.

# Sick Benefits Paid by International Molders' Union. 1

THE following statement shows the amounts of sick benefit paid by the International Molders' Union of North America from January, 1896, to June 30, 1923:

1896	\$38, 511. 00	1911	\$154, 391, 40
1897	36, 720. 00	1912	154, 497, 40
1898	37, 710. 00	1913	172, 792. 20
1899	57, 465, 00	1914	169, 943, 20
1900	102, 935. 00	1915	138, 819. 40
1901	118, 515, 00	1916	164, 611, 60
1902	134, 116, 00	1917	184, 789, 50
1903	179, 355, 00	1918	292, 971. 30
1904	198, 214, 25	1919	256, 539, 00
1905	173, 946, 25	1920	288, 401, 20
1906	176, 799, 00	1921	262, 453. 20
1907	190, 177. 10	1922	217, 361. 40
1908	159, 916, 20	1923_(first six months)_	123, 030. 80
1909	120, 258, 65		
1910	146, 110. 40	Total	4, 451, 350. 45

The amounts disbursed in sick benefits, from July 1, 1917, to June 30, 1923, aggregated \$1,523,556.80, or more than one-third of the total amount paid since January 1, 1896. The proportionately large amount for the six years ending June 30, 1923, is accounted for partly by the increased average membership of the union and partly by the provision made at the Rochester convention in 1917 for the increase of the weekly sick benefit from \$5.50 to \$7.60. At this meeting also it was decided to raise the weekly assessment per member to the sick benefit fund from 7 to 10 cents. The experience of the union with this higher assessment shows that it has taken 9\frac{2}{3} cents of each member's weekly contribution to meet the sick benefit payments, leaving one-third of a cent of each assessment for administration costs and the accumulation of a safe surplus.

On June 30, 1923, there was a balance of \$159,830.60 for the sick

benefit fund, divided as follows:

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In the treasuries of local unions	\$33,	701.	76
In the hands of trustees	122,	276.	03
In the sick relief fund (a clearing house feature).	3.	852.	81

# Recent Workmen's Compensation Reports.

#### Hawaii.

THE eighth annual report of the Industrial Accident Board of the City and County of Honolulu covers the year ending June 30, 1923. During that period 284 employers not previously on record made returns to the board, making a total at the end of the year of 1,475 employers. Of these, 58 were self-insured with the permission of the board. The number of accidents reported during the year was 2,752, of which 20 were fatal. There were 34 nationalities represented, 803 of the injured being Japanese, 435 Portuguese, 434 Filipino, 299 Hawaiian, 255 American, the others following in smaller groups. Of the persons involved 2,702 were males and 50 females; 1,394 were married and 1,358 were single.

<sup>&</sup>lt;sup>1</sup>International Molders' Journal, Cincinnati, November, 1923, Report of the Secretary of the International Molders' Union of North America to the 1923 Convention of the organization, pp. 128, 129.

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Of the total, 618 accidents caused disability of less than one day, and 951 others of less than one week, this total of 1,569 being noncompensable except so far as medical and hospital services and supplies were involved. The payment of full regular wages by the employer is reported in a number of these instances. Of the remaining cases, 1,104 caused only temporary total disability, for which compensation amounting to \$35,551.73 was paid. Medical and hospital expenses for this group, and for those not receiving compensation because disabled less than one week amounted to \$38,724.42, or a total for the 2,673 accidents of \$74,276.15. Permanent partial disability succeeded the period of total disability in 59 cases, 41 of which involved the loss or loss of use of a finger or fingers, 8 of a thumb. and 6 of an eye. Payments for the total disability periods in these cases aggregated \$4,360.19, and for the permanent partial disabilities \$29,776. Medical and hospital services brought up the total benefits for these cases to \$38,658.64.

The 20 fatal cases called for compensation amounting to \$34,182.01 and funeral expenses of \$1,434. Medical and hospital expenses in the

sum of \$269.25 made the total for this class \$35,886.26.

The report notes an amendment to the law eliminating the limitation of medical benefits to \$150 as the most important among the changes made during the year. The occasions for larger expenditures are few, but where the necessity arises there have been "created complications difficult of adjustment."

## North Dakota.

THE Workmen's Compensation Bureau of North Dakota presents as its fourth annual report data for the fiscal year ending June 30, 1923. Insurance in this State is maintained exclusively in a State fund. During the year a special endeavor has been made to enforce the act, "which has resulted in a considerable increase in the number of risks." At the end of the year covered there were 8,548 risks in force. Employers and employees generally cooperate effectively with the bureau, the chief offenders against the act being the political subdivisions of the State, especially school districts and townships.

Premium rates were reduced in 75 classifications during the year, and increased in 14, no changes being made in the remaining groups. A 15 per cent refund dividend was found possible on all risks which had normal experience renewing on and after July 1, 1923. This excepts 38 classifications on which no dividend has been declared on account of the unfavorable experience developed. The merit-rating system in effect since July 1, 1920, has been revised, and now provides for a minimum rate of 15 per cent below the manual and a maximum rate of 24 per cent above the manual for favorable and unfavorable experiences respectively. Such rewards and penalties encourage the exercise of care, and at the same time effect a more equitable distribution of losses among the various risks.

The fund had on hand July 1, 1922, the sum of \$985,203.41, premiums paid amounting to \$355,788.22, other sources contributing to make the total income \$428,338.33, showing a total of \$1,413,541.74. Compensation payments actually made during the year amounted to \$129,895.69, medical expenses to \$68,846.07, and administrative expenses to \$54,963.12. The amount of refunds was \$22,994.50 and that of returned checks, \$2,654.33, the total disbursements being

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\$280,353.71, leaving a balance of \$1,133,188.03. The amount of compensation payments increased approximately 30 per cent and medical payments 45 per cent over the previous period. The increase in the number of risks covered and the number of claims filed has occasioned an increase also in the administrative expense.

There were 137 claims dismissed, 35 of these being due to the fact that the employer was not insured at the time of the accident, while in 51 cases the accident did not occur in the course of the em-

During the year 1,615 accidents were reported as causing temporary disability, besides 11 fatalities and 39 cases of permanent partial disability. Of the temporary cases, 701 caused disability of less than 7 days, and were therefore not compensable. The total number of claims submitted during the year was 1,654, involving a total loss in time of 42,425 days. The largest number of claims was due to injuries received from objects being handled (394), falls of persons coming next with 235 cases, and hand tools following with 205. Objects being handled called for awards amounting to \$34,306.53, falls of persons, \$30,129.28, machinery coming next with \$22,751.90 in 184 cases of claims. Total awards aggregated \$158,356.08 as against \$144,192.20 the previous year.

## Great Britain.1

THE political change with regard to the Government of Ireland affects the statistics of operations under the workmen's compensation act of Great Britain by eliminating from the British report the cases arising in Ireland. This affects the strict comparability of figures of 1922 and later years with those for preceding years, since "it has not been possible to separate and exclude the Irish cases." It is thought, however, that this will not affect "to any serious extent, the comparison of the figures for 1922 with those of previous years."

As is generally known, the principal statistics of compensation cover seven groups of industries: Shipping, factories, docks, mines, quarries, constructional work, and railways. Some important groups are therefore not represented; for example, building, road transports, and agriculture. In these seven groups returns were received in regard to 138,718 employers. The average number of employees under the act in these seven industries was 7,205,609, the total number of cases in which compensation was paid being 392,912. The amount paid for fatal cases was £546,889 (\$2,661,435, par); and for nonfatal cases £5,948,839 (\$28,950,025, par), the total being £6,495,728 (\$31,611,460, par). The average payment in death cases was £220 (\$1,070.63, par), as compared with £217 (\$1,056.03, par) in 1921 and £161 (\$783.51, par) in 1914. There was a large increase in 1922 over 1921 both in the number of cases and the amount of compensation paid. For the earlier year 285,746 cases were reported, the increase in 1922 amounting to 37.5 per cent, while compensation increased 17.9 per cent. It must be kept in mind that the figures for 1921 included Irish cases as well, so that in 1922 the increase was an excess in Great Britain alone over the earlier total for Great Britain and Ireland.

<sup>&</sup>lt;sup>1</sup>Great Britain. Home Office. Statistics of compensation and of proceedings under the workmen's compensation act, 1906, and the employers' liability act, 1880, during the year 1922. London, 1923. Cond. 2007. 29 pp.

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The increases were due principally to the nonfatal cases, and it is apparent that the increased number of accidents did not entail a corresponding increase in compensation costs. The increase in the number of nonfatal cases in 1922 was 37.8 per cent and in fatal cases only 4.4 per cent. The increases took place almost entirely in the mining industry, where the accident rate per thousand was 192 as against 102 in 1921, 116 in 1920, and 123 in 1919. The "charge per person employed" i. e., the amount of compensation paid per person employed, was 61s. (\$14.84, par) in mines, having advanced from 29s. 6d. (\$7.18, par) in 1919.

For the other groups of industries the accident rate per thousand persons employed and the "charge per person employed" were, in 1922, respectively, shipping 23, and 16s. 9d. (\$4.08, par); factories, 27 and 8s. 9d. (\$2.13, par); docks, 82 and 36s. 10d. (\$8.96, par); quarries, 63 and 22s. 10d. (\$5.56, par); constructional work, 52 and 18s. 11d. (\$4.60, par); railways, 30 and 11s. 3d. (\$2.74, par); total for the seven industries, an average rate per thousand of 55 and an

average charge per person, 18s. (\$4.38, par).

As noted in the Monthly Labor Review for February, 1924 (pp. 184, 185), the British workmen's compensation act was considerably amended in 1923, though the effects of this amendment are. of course, not apparent in the above statistics of proceedings. that account reference was made to the consideration given by the commission of inquiry to the subject of compensation insurance, and to the agreement arrived at between the Government and the representatives of the accident insurance companies for certain economies to be observed by the companies, with the understanding that there should be no governmental interference with their conduct of the The commission on premiums was fixed at a reduced scale. The report under review points out that the figures for "charge per person employed" given above "represent only the actual amount paid to workmen or their dependents, and not the total charge on the industries in respect of compensation." Other items are administrative costs, medical and legal costs of employers and companies, and reserves and profits. The report continues: "In the case of the insurance companies, these have constituted a large proportion of the total charge."

Returns furnished by the companies to the board of trade with regard to employers' liability insurance business for 1922 show an income from premiums, after making the necessary adjustments as to unexpired risks, of £6,490,478 (\$31,585,911, par), and from interest and dividends on reserves £200,149 (\$974,025, par), or a total income of £6,690,627 (\$32,559,936, par). "Of this sum, however, only £2,974,602 (\$14,475,901, par), or 44.46 per cent, was allocated to payment of compensation (including legal and medical expenses incurred in connection with the settlement of claims). Of the balance, £2,186,123 (\$10,638,768, par), or 32.68 per cent, was spent in payment for commission and expenses of management, while £1,582,715 (\$7,702,283, par), representing 23.65 per cent of income, was set aside for profits." Commissions formed 10.43 per cent and management expenses 22.25 per cent of the total. The figures given show an excess of outgo over income, which is accounted for by the transfer of £52,813 (\$257,014, par), or 0.79 per cent, from additional reserves.

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It should be noted that these figures apply to the whole of the employers' liability insurance business of the companies, and not merely to the seven industries for which statistics are given above. Limiting estimates to these seven classes of industries, it is said that the total charge for compensation therein in 1922 can hardly have been less than £8,500,000 (\$41,365,250, par). In further discussing the subject of insurance, and the proportion of the amount collected paid out in benefits, the report continues:

The proportion of 44.46, however, compares favorably with the figure for the preceding year, when the proportion of income allocated to payment of compensation was only 35.95 per cent. For the future a further and greater improvement will be insured by the formal arrangement which was recently negotiated between the home office and the Accident Offices Association for the purpose of limiting the charges to employers in respect of employers' liability insurance. It is provided by this arrangement, the full terms of which have been published as a parliamentary paper, that the proportion which the total amount paid by the offices constituting the association (which includes almost all the big accident insurance companies) in respect of compensation or damages for injuries to workmen (including reasonable medical and legal expenses in connection therewith) bears to the total amount received as premiums by these offices, shall for each of the years 1924, 1925, and 1926 be not less than 60 per cent and shall for any subsequent year be not less than 62½ per cent, or such other proportion, not being less than 60 per cent, as may be agreed between the secretary of state and the association.

# Shall the Oregon State Insurance Fund be Made Competitive?

ON DECEMBER, 8, 1923, the Governor of Oregon appointed a committee of 15 persons representing agricultural interests, industrial employers, and industrial employees to consider questions affecting the State workmen's compensation law. At the first meeting of this committee the State industrial accident commission was requested to answer an inquiry made by one of the committee "as to the effect of a change in the Oregon workmen's compensation law providing that all settlements made by casualty companies be approved by the industrial accident commission."

The commission prepared a reply to this inquiry, assuming that the question was based upon the idea that the law, which now provides an exclusive State fund, should be changed so as to recognize insurance by both insurance companies and the State fund. In this response, "the commission has endeavored to use only data as to the actual experience developed in the field of workmen's compensation in other States, particularly States in which the State funds are competitive and where settlements by insurance companies are subject to the approval of the accident commissions." Taking up first the effect of such a change upon the employers, the commission stated that the principal result "would be an increase in the cost of workmen's compensation insurance," assigning as reasons for its statement that the cost of insurance in the State fund would be increased; that—

<sup>(</sup>a) Solicitors would have to be employed, as in other competitive fund States; (b) The fund would be conducted practically as an institution separate from the commission, for the latter would be required to pass impartially upon settlements made by the fund, as well as private companies;

<sup>(</sup>c) The overhead expense would be greater upon a smaller volume of insur-

ance;
(d) The fund would have to contend against a campaign by private companies to destroy it.

The present cost of insurance in the State fund would also be increased if insurance was secured from private companies because "the country over, the nonparticipating private insurance companies use approximately four times as much for expenses as our State fund"; and also because of the additional work involved in the

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system suggested by the question.

These brief statements were enlarged upon by a review of the facts existing in the State of Oregon as compared with adjacent States which have a competitive system, and also by extracts from the "Lockwood report" on the situation of compensation insurance in New York. The New York insurance report of 1923 was also quoted in its statement that "nonparticipating stock companies the country over use 44.58 per cent of their premium income for expenses," while in Oregon a nine-year record shows slightly less than 9 per cent so used.

The experience of a large company, the Employers' Liability Assurance Corporation, as set forth in the New York insurance report of 1922, showed an expense ratio of 42.50 per cent. Comparing this with the benefits paid or awarded in Oregon during the nine years discloses a saving of \$8,189,897 to the employers of the State. This saving "by the Oregon fund, as compared with the experience of this one company, will also serve to show the incentive for the campaign to destroy the present compensation act, and for the campaign conducted against State funds in other States." While the insurance company collected \$1.74 for each dollar paid to the injured, the Oregon fund provided one dollar in benefits for every \$1.10 collected.

The Lockwood report showed premium rates charged by stock companies in New York of \$28.90 for each \$100 of pay roll for steel erection and \$12.16 for carpentry. "The corresponding base rates in Oregon are, respectively, \$8 and \$3.25, with the net cost some-

what less by reason of distribution of surplus."

Another item less frequently emphasized is the saving effected by interest earnings, interest and penalty from delinquent employers, "and other smaller similar items." In Oregon these are returned to the accident fund and serve to reduce the cost to employers, the amount accrued in nine years being somewhat in excess of \$400,000. Mr. Alfred M. Best, "one of the leading insurance experts and statisticians in the United States," has testified that "experience has shown that there is a very large profit in this liability reserve that the law has required to be set apart for extra safety. Of this reserve approximately one-half is profit which is nowhere shown upon the books of the company," large earnings being held by the companies and used for their own purposes, instead of serving to reduce insurance costs.

Taking up the effect upon workmen and dependents, the commission summarized its conclusions that a change would be injurious

to them-

(a) Through the practice of stock companies to settle with them for less than the amounts to which they are entitled by law;

(b) By reason of being deprived of compensation through the failure of insur-

ance companies:

(c) Through loss of compensation by failure of employers to secure insurance; (d) From the great number of appeals prosecuted by insurance companies on echnical grounds;

(e) Because of lack of assistance in securing the greatest physical restoration possible; and

(f) From the fact that private insurance companies do not provide for voca-

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ice; on Detailed illustrations are given, besides various conclusions arrived at by other investigators. Of 114 cases involving 19 different insurance companies in New York, settlements made by one corporation in 12 cases showed payments by the company intended to be final amounting to \$1,307.40. Investigation by the State commission added \$4,581.40 to these awards, 2 cases also indicating additional compensation to be paid in the future on account of continued disability.

The stability of the companies as compared with the State fund is illustrated by the testimony of a New York official to the effect that "a good many stock companies have 'busted up' and lost other people's money in these lines." Mutual companies generally pay up, but "I know of a good many stock companies that have not"; while a second official stated that "millions of dollars have been lost through insuring in these same lines with stock companies."

The excessive number of appeals to courts is indicated by the California experience of 87 appeals per million dollars of pay roll by insurers in the State fund, while the average number for other

carriers was 209.

A paragraph is given to the question of the effect upon the public, the commission saying that "in the proper solution of this problem the taxpayers of Oregon have a direct interest, for they in the last

analysis foot the bills.'

The pamphlet closes with a submission of general statements taken from the New York experience and investigations, sustaining the attitude of the Oregon commission in favor of an exclusive State fund with no concession to the stock companies.

# Old-Age and Invalidity Pensions of French Miners.<sup>1</sup>

FUND for the payment of old-age and invalidity pensions to miners was established in France by a law passed June 29, This law has been the subject of various amendments, the most recent ones being contained in a law dated December 24, 1923, which, in addition to other changes, increases the amount of payments allowed by the act of February 25, 1914. The principal provisions of the miners' retirement law, as amended, are as follows:

The fund is administered by a council composed of representatives of the State, of the mine operators, and of the workers. It is supported by taxes upon wages, a tax paid by employers, and contributions of the State. The wages of all miners are taxed, the amount being fixed each year by the administrative council, but the amount of this tax may not exceed  $2\frac{1}{2}$  per cent of the wages. The employers are required to pay an amount equal to that paid by the workers, and the State contribution varies but can not be less than 1 per cent of the total amount of wages paid.

<sup>&</sup>lt;sup>1</sup>Comite Central des Houillères de France, Législation Minière et Législation Ouvrière, Paris, 1920, pp. 84-95, 101-108, and Circulaire No. 5684: Retraites des Ouvrière Minèure, Paris, December, 1923, 6 pp.

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Employees to be eligible for retirement must be 55 years of age and must have had at least 30 years of service in the mines. computing the working time of employees the average number of days worked together with the time lost because of injury or sickness for which compensation has been paid must amount to 264 days a year. When this average has not been reached the number of years worked will be determined by dividing the total number of days of work and sickness by 264.

The minimum amount of pension paid to workers fulfilling the requirements as to age and length of service is fixed at 2,000 francs (\$386, par). Allowances or pensions paid to workers not having worked for the full period of 30 years can not be less than 600 francs (\$115.80, par) for 15 years' service or more than 1,500 francs

(\$289.50, par) for 29 years' work in the mines.

Widows whose husbands at the time of death were receiving a pension, and who are 55 years of age, or when they reach that age are entitled to half the amount of pension received by their husbands. Widows of miners who died before the age of 55 but who had been employed for 30 years receive a pension of 1,000 francs (\$193, par) and for those with less than this service half the amount of pension to which the worker himself would have been entitled. Allowances are also made for orphans under 16 years of age. In case of divorce or separation from the former employee, a widow may be deprived of the pension, and in case of remarriage the payment of the pension ceases although a lump-sum payment equal to three years' pension is paid.

Miners who, after having received the assistance of any insurance society for six months, have a permanent partial disability amounting to two-thirds of their working capacity and have completed 10 years service in the French mines, representing at least 2,640 days of labor or of sickness for which compensation was paid, and if there were at least 500 days of effective labor in the two years preceding their incapacity are entitled to the following payments: During a period of five years beginning at the sixth month of the period of incapacity for work, a monthly allowance of 125 francs (\$24.13, par) shall be paid and at the expiration of this period an annual pension of 1,500 francs (\$289.50 par). Persons who are incapacitated because of injuries or sickness which are covered by workmen's compensation or who are incapacitated through their own fault or crime

are excluded from participation in these benefits.

# An English Unemployment Insurance and Profit-Sharing Plan.

THE English magazine, Industrial Welfare, in its issue for January, 1924, gives some details concerning a welfare plan recently inaugurated by Cadbury Bros., which combines profit sharing with a sort of insurance against unemployment in the form of short The first step in the plan was the establishment of a welfare fund which was worked out in an original manner. Having calculated what number of shares would, for the three years ending June 30, 1923, have produced an average annual dividend of £50,000 (\$243,325, par), the firm practically devoted such a block of stock to

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the purposes of the welfare fund. Henceforth "the average annual dividends which would have been paid on such a block of shares for the three years prior to every June 30 will be paid into the welfare fund," and to this will be added whatever amount is needed to pay the income tax, so that the entire fund may be used for welfare purposes.

Unemployment benefit is to constitute the first charge upon this fund. Beginning with December, 1923, every employee is entitled to benefit if he is unemployed for more than six hours in any week through lack of work. The purpose of the firm is to relieve its employees from the losses involved in short-time work, whether due to seasonal fluctuations or to such industrial depressions as England is now experiencing, and it considers that this plan amounts to the guaranty of a minimum week.

Any part of the fund not absorbed by short-time benefits will be devoted to a prosperity sharing scheme and will be divided among the workers in proportion to the shares each holds. The shares are to be allotted as follows:

Men and women over 21 and under 24 years of age, with 5 years' service and over, 1 share.

Men and women of 24 years of age and over, with over 5 but less than 9 years' service, 1 share.

Women of 24 years of age and over, with 9 years' service and over, 2 shares. Men of 24 years of age and over, with 9 years' service and over, 3 shares.

An important feature of the plan is that the fund is not dependent upon profits reaching any set figure. As already stated, a certain amount of stock is dedicated to this purpose, and its earnings go to the welfare fund whether the general profits are large or small. The fact that the yearly contribution is to equal the average dividend for three years past introduces a stabilizing factor, making it certain that a bad year can not wipe out the fund. Another highly important feature of the plan, from the employee's standpoint, is that the allotment of shares, and consequently the division of the fund, is based not on wages, but on age and years of service, so that the low-wage groups fare as well as the more highly paid.

The scheme is to apply to all the whole-time employees of the firm throughout England, except those who already receive commissions based on sales or profits or both, and is to be administered by a committee formed of representatives of the board of directors and of the workers.

# Recommendations of British Imperial Economic Conference Respecting Workmen's Compensation.

WORKMEN'S compensation was one of the subjects which came up for discussion during the sessions of the Imperial Economic Conference held in London in October and November, 1923. It was pointed out that since 1911 there had been a great development of legislation on this topic in the different parts of the Empire, and that each legislature had worked out the problem

<sup>&</sup>lt;sup>1</sup>Great Britain, Imperial Economic Conference, Record of proceedings and documents, London, 1924, Cmd. 2009, 620 pp , and Summary of conclusions, London, 1923, Cmd. 1990, 20 pp.

independently. As a result, there were such wide diversities of practice in the separate dominions that it was hardly possible to secure, at this date, any general uniformity throughout the Empire. On a few points, however, this might be obtained. It was felt that it was especially desirable to secure such uniformity in regard to non-resident workmen, aliens, and seamen, "so that at any rate within the British Empire there should be similarity of treatment for non-residents and seamen, and also similarity of treatment for foreign workers where other countries reciprocated." A committee was appointed to consider and report on the matter, which recommended the adoption of the following resolutions:

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## RESOLUTION I.—Nonresident workmen.

That the conference, taking note of the existing restrictions in the workmen's compensation laws of certain parts of the British Empire on the payment of benefits to workmen and their dependents on the ground of nonresidence in the State in which the accident happened, and having regard to the tendency of such restrictions to discourage movement within the Empire, is of opinion that no British subject who is permanently incapacitated, and no dependent of a British subject who has been killed by accident due to his employment in any part of the Empire should be excluded from any benefit to which he would otherwise be entitled under the workmen's compensation law of that part of the Empire on the ground of his removal to or residence in another part of the Empire.

#### RESOLUTION II.-Seamen.

That the conference, having had its attention drawn to eases where British sailors injured by accident while serving on ships registered in some part of the Empire have had no claim to compensation owing to the law of that part of the Empire being restricted, in its application to seamen, to accidents occurring within territorial waters or other limited area, is of opinion that the government of any such part of the Empire should insure that the benefits of its compensation law will extend to all accidents to seamen serving on ships registered within such part of the Empire wherever the ship may be when the accident takes place. And furthermore the conference invites the government of any British colony or protectorate where there is a register of shipping but where legislation giving compensation rights to seamen does not at present exist, to consider the adoption of such legislation.

#### RESOLUTION III .- Aliens.

That the conference, taking note of the disabilities imposed under the workmen's compensation laws of certain foreign countries on British subjects residing within those countries and their dependents, invites each government of the Empire, regard being had to its own particular conditions, to consider the possibility of adopting in workmen's compensation legislation the principle of reciprocity—that is, that the benefits of such legislation should be accorded to subjects of foreign countries upon the condition that and to the extent to which such foreign countries accord reciprocal treatment to British subjects.

The resolutions as a whole were adopted by the conference, although note was made of the fact that in some of the Dominions such matters as workmen's compensation fall wholly or partly under the jurisdiction of the Province or the State, and are to that extent beyond the control of the dominion government.

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# LABOR LAWS AND COURT DECISIONS.

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# Labor Law of Durango, Mexico.1

By ETHEL C. YOHE, OF THE UNITED STATES BUREAU OF LABOR STATISTICS.

To GIVE effect to article 123 of the Federal constitution of Mexico the Legislature of the State of Durango enacted a labor law which was signed by the governor of that State October 14, 1922, and became effective three months after promulgation. This law covers a great variety of subjects, including labor contracts, rights and obligations of the contracting parties, hours and wages, private employees, apprentices, shop rules, strikes and lockouts, trade-unions, conciliation and arbitration, labor inspection, workmen's compensation, and safety and hygiene regulations.

## Contracts of Employment.

A CONTRACT of employment is defined in the law of Durango as an agreement by virtue of which one person or group of persons renders services to another person or company. The law covers individual and collective agreements and includes contracts for work in agricultural, industrial, and mercantile establishments and in mining enterprises. It applies also to services rendered to the State and municipal governments by their employees. According to this law any individual of either sex over 16 years of age may make a personal contract for services or may make a collective contract, either through a labor organization or by a person authorized by law to represent him.

The contract is individual when it is made between an individual or his legal representative and an employer. A collective contract is one made between an employer or company and a group of workers or a representative of the group. Contracts may be verbal in the following instances: (1) When the duration of service does not exceed six days, (2) when it treats of domestic service which does not require continuous physical effort, and (3) when the services do not endanger the life or health of the laborer

In the following cases, however, the contract must be in writing:

(1) When the duration of the work exceeds six days, except in the case of domestic servants;

(2) when the services endanger the life or health of the laborer even if the duration is less than six days;

(3) when the services are to be rendered outside of the State;

(4) when the agreement is made outside the State for work within the State;

(5) when the agreement is for the work of minors under 18 years of age;

(6) contracts of partnership.

The law requires that the following be specified in all written contracts: (1) The names, ages, professions, and domiciles of the

<sup>&</sup>lt;sup>1</sup>This is the seventh of a series of articles on labor legislation in the Mexican States, the six previous ones having been published in the December, 1922, August, September, November, and December, 1923, and the February, 1924, issues of the MONTHLY LABOR REVIEW. The labor law of Durango was received by this bureau too late to be included in the previous studies; it is handled topically as were the other State laws.

contracting parties; (2) the kind of service to be rendered; (3) the duration of the contract, specifying the date on which it is to begin and whether it is for an indefinite period less than one year or for a specified piece of work and for a fixed sum; (4) the length of the working day, the weekly rest day, and the salary or wages the laborer is to receive and whether they are fixed by unit of time, by unit of work, or in some other manner; (5) the place or places where the work is to be performed. If the place of work is not specified in the contract the laborer shall not be obliged to work in places which are more than 4 kilometers (2.5 miles) from his residence. The written contract is to be made in duplicate, one copy to be kept by each of the parties, and is to be signed by the contracting parties before two witnesses.

#### Duration.

Contracts may be made for a fixed period or for a specified task, but not for an unlimited time, those in which the duration is not stated being considered to be for one year. If the worker continues to render service after the expiration of the contract without making a new contract, it will be considered extended indefinitely, but may be terminated on one month's notice by either party.

#### Termination.

Contracts may be terminated under the following conditions: (1) Upon the conclusion of the work for which the contract was made; (2) at the end of the contract period; (3) by mutual consent; (4) upon the death of either of the contracting parties; (5) because the employer becomes bankrupt or goes out of business; (6) on account of bad business conditions, necessitating the discharge of one or more employees before the end of the contract period, in which case the employer must give such workers a 30-day notice in writing; (7) because of a criminal act committed by the worker which renders him liable to the law; (8) on account of force majeure.

Grounds for discharge.—When an employer discharges a workman for any of the reasons specified in the law he is not liable to damages, nor is he required to pay the usual indemnity for unlawful discharge—the equivalent of three months' wages. The following are the grounds for discharge specified in the law: (1) When the worker does not render the services agreed upon in the contract, or misrepresents his qualifications, skill, etc.; (2) when he fails to obey the orders of the employer or his representative, either because of ignorance or from bad faith; (3) when the worker reveals trade secrets; (4) when he comes to work in an intoxicated condition, violates the shop regulations more than three times in one month, or causes damage or loss to the employer's interests through negligence, disobedience, or ignorance; (5) when he refuses to render service in case of accident or imminent danger; (6) when by his imprudent acts he jeopardizes the safety of the work place or of his fellow workers.

When worker may quit before expiration of contract.—A laborer may quit his employment before the expiration of the contract without being held liable for breach of contract for the following reasons, specified in the law: (1) If wages are not paid as stipulated in the contract; (2) if the worker feels that his health is being under-

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mined because of the unhealthful conditions of the work place; (3) if the employer requires him to do work other than that stipulated in the contract; (4) if the employee is obliged to work longer than the legal workday without increased wages; (5) because of dishonesty on the part of the employer; (6) if the employer, or his subordinates with his consent, maltreats the worker.

Employer's liability.—An employer will be required to pay the worker an indemnity equal to three months' wages in the following cases: (1) If he has failed to give the employee a 30-day notice in writing of his intention to discharge him because of straitened circumstances in his business; (2) when the employee is discharged without justifiable reason; (3) when the worker quits before the expiration of the contract with a justifiable reason in the opinion of the board of conciliation; (4) when the employer refuses to submit to the board of arbitration differences which arise between himself and his employees. When an employee of the State or city is discharged for any reason except inability to perform the service, the State or city government shall pay him three months' wages, even though the discharge may be for political reasons.

## Verbal Contracts.

The lack of a written contract does not deprive the worker of his right to recover wages earned nor release the employer from liability for accidents and occupational diseases suffered by the worker during the performance of his work. On the other hand, the lack of a written contract deprives the employer of all action against the worker, and the president of the board of conciliation and arbitration shall impose upon the former a fine of from 10 to 100 pesos (\$4.99 to \$49.85, par).

Contracts for Employment Outside of Mexico.

Contracts made by a Mexican with a foreign contractor or company for work outside of Mexico must be authorized by the central board of conciliation and arbitration, by the municipal authority, and viséed by the consul of the country to which the worker is going. The law requires the contractor to bear the expense of repatriating the worker.

Contracts made outside the State of Durango for employment within the State are subject to the provisions of this law.

#### Certain Provisions Void.

The law declares certain provisions not binding even though included in the contract. These provisions are as follows: (1) Stipulations for more than an 8-hour day, for more than 7 hours for night work, or for more than 6 hours for a minor; (2) those which specify a lower wage than the minimum wage fixed by the district board of conciliation; (3) those which provide for a longer period than one week before the payment of wages or for payment of wages with promissory notes or checks, or which require the purchase of articles of consumption in specified stores when the work is carried on in a place which has its own market; (4) those which permit a discount, fine, or retention of wages on any pretext or the discharge of the

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employee at any time; (5) those which, even indirectly, require the worker to commit an immoral act, or require him to resign from his labor union, or deprive him of his civil or political rights; (6) those which constitute a waiver by the workman of the right to compensation for industrial accidents or occupational diseases, or of any right which the law establishes for his benefit; (7) those which attack the dignity of the individual.

## Employers' and Workers' Organizations.

THE law contains provisions granting to both employers and workers the right to combine in defense of their respective interests. An employers' association and a trade-union, according to Chapter IX of the law, is a group of employers and workers. respectively, combined exclusively for the study, development, and defense of their common interests. The law stipulates that employers' associations or trade-unions which are organized according to the following provisions of the law shall be regarded as legal persons apart from their members: (1) Employers' organizations must have at least 5 and workers' organizations 20 members; (2) such organizations must be registered. One copy of the by-laws shall be filed with the executive of the municipality, another sent to the board of conciliation, and a third to the central board located at the State capital. The by-laws must contain the name, headquarters, object of organization, conditions of membership, mode of collection and administration of funds, and duties of the executive committee and manner of choosing its members. Once the employers' association or tradeunion has been organized and registered, its rights and obligations as such shall be recognized.

#### Prohibited Acts.

Provisions in the law specifically prohibit the employers' associations and trade-unions from doing any of the following acts: (1) Admitting to membership one who is an agitator or engaged in spreading seditious propaganda; (2) admitting to membership workers with entirely different trades from that of the other members; (3) coercing any one to join the organization; (4) engaging in political or any other activity outside the sphere of the organization. For doing any of the things specifically prohibited the employers' associations or trade-unions may be penalized by having their names stricken from the register after a hearing.

# Labor Disputes.

THE law recognizes the right of workmen to strike and of employers to suspend work in defense of their interests.

#### Strikes.

When lawful.—The law defines lawful strikes as those which are peaceful and for the purpose of securing a balance between the rights of labor and those of capital. Provisions in the law specify the following definite objects for which strikes may be called: (1) To obtain a modification of the contract for the general benefit of the workers; (2) to compel the employers to modify the mode of payment and the

hours of labor. When a strike is imminent the workers must request the board of conciliation and arbitration to attempt a settlement, and if this fails must give a 10 days' notice to the employer and the

board of their intention to strike, stipulating the cause.

When unlawful.—The law defines unlawful strikes as (1) those the cause of which is nonfulfillment of individual or collective employment contracts; (2) those in which a majority of the strikers engage in violent acts against person or property; (3) those in establishments and services upon which the Government depends in time of war.

Hiring of strike breakers prohibited.—The law prohibits employers from hiring other workers to replace those on strike pending the settle-

ment of a lawful strike.

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Termination.—Strikes may be terminated by private agreement between the employers and workers, or by the decision of the central

board of conciliation and arbitration.

Effect of award on contract of employment.—The provisions of the law concerning the effect of an award of the board of conciliation and arbitration on the contract of employment are as follows: (1) If the award is favorable to the employer, the contract is terminated without obligation on his part; (2) if it is favorable to the workers, the contract will continue with such modifications as the board directs, in which case the contract may be terminated if the employer pays the strikers an indemnity equivalent to three months' wages; (3) if the award is not wholly favorable to either party, the contract continues and the employer is not required to indemnify the workers if the contract is terminated.

Penalties.—Promoters of violent strikes and those who commit violence against person or property will be liable under article 890 of the Penal Code in addition to being liable for crime committed collectively. Workers will be held liable for infractions of the law apart from the collective act or participation in a collective violation

of the law.

#### Shutdowns.

When lawful.—Shutdowns are considered lawful when overproduction necessitates the suspension of operations in order to maintain prices at a profitable level, the previous approval of the board of conciliation and arbitration being required. Employers shall give the workers 10 days' notice of their intention and the reasons for the shutdown.

When unlawful.—Shutdowns will be unlawful in the following cases: (1) For the purpose of reducing the wages of employees; (2) to avoid granting their lawful demands; (3) for the purpose of dismissing workers who were active in a strike; (4) nullify the effects of a strike; (5) when the business is one which affects public health and order; (6) for the purpose of obstructing the collection of a tax or of causing the revocation of a law.

Employers may not discharge the workers and likewise the workers may not quit their employment for six months after a conciliation award, except for willful failure to pay wages or on account of grave

ill-treatment.

Penalties.—If an employer, without awaiting the decision of the board of conciliation, suspends operations in mines, factories, shops,

offices, commercial or business establishments, the mayor shall impose upon him a fine equivalent to one day's wages of the entire personnel for each working day that the business remains closed. which shall be deposited in the municipal treasury.

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## Settlement of Labor Disputes.

CHAPTER X of the law provides that differences and disputes between employers and workers shall be submitted for settlement to the local board of conciliation in a municipality, which is subordinate to the central board of conciliation and arbitration.

## Organization of Conciliation Boards.

Local boards.—The municipal boards of conciliation shall consist of five members, two representatives each of employers and workers and the same number of alternates, elected by the group which they represent, and the presiding officer of the city council who shall be ex officio president of the board. A member of the city council shall be appointed by the municipal authority to act as alternate for the president of the board. A member of the board must have the following qualifications: (1) He must be at least 25 years of age: (2) he must be able to read, write, and count; (3) he must be a Mexican citizen of good habits and, in the judgment of the electors, must have had the necessary experience.

Central board.—The central board of conciliation and arbitration shall be composed of 10 members, five representatives each of employers and workers and their alternates. The government representative, who acts as president of the board, shall be appointed

and can be removed by the governor of the State.

The members of both boards are elected for one-year terms.

## Powers and Duties of Boards.

Among the powers and duties of the boards are the following: (1) To fix the minimum wage in mercantile establishments, factories, and agricultural, industrial, and mining enterprises according to the needs in each district; (2) to receive oral or written complaints of employers and workers; (3) to decide disagreements arising between employers and workers by conciliation or arbitration; (4) to receive and pass on all labor contracts; (5) to intercede in strikes and shutdowns; (6) to consign employers and workers guilty of criminal acts to the proper authorities; (7) to pass on all works regulations of workshops, business enterprises, etc., and decide any questions as to the application of these regulations; (8) to enforce this law and its provisions. In fixing minimum wages in mercantile establishments, factories, and agricultural, industrial, and mining enterprises, the municipal boards shall take into consideration the importance of the work, the economic conditions in the municipality, and other circumstances, and the establishments concerned are obliged to furnish any information needed. In settling disputes between employers and workers, conciliation boards shall first attempt to reconcile the parties concerned. If reconciliation can not be obtained, arbitration shall be resorted to, and the parties so notified.

#### Procedure Before Central Board.

Employers and workers may present their differences before the central board of conciliation and arbitration either orally or in writing, acting themselves or through representatives. The board shall summon the parties to appear before it within 48 hours, but a longer time may be allowed if the parties live outside the capital. meeting of the parties concerned the board shall attempt to effect a compromise, and if successful both parties are bound by the terms of the settlement. In case the parties fail to agree, the plaintiff may present his claims to the court of arbitration. All conciliation decisions shall be reached by majority vote, and if such vote can not be obtained a note to that effect shall be added to the record of the case which is submitted to the arbitral tribunal to be used as evi-The president of the central board shall summon both parties to appear before him within 48 hours (within an extension of time if needed because of distance), and at the request of either side may grant a period of not more than eight days in which to submit proof. At the hearing the parties can make their allegations either orally or in writing, and thereafter the court shall announce its award within eight days. Decisions shall be by majority vote, and are binding on both parties and not subject to appeal.

If an employer refuses to submit his differences to arbitration, the labor contract shall be considered as terminated, and the employer shall indemnify the workman by the payment of three months' wages, as well as his traveling expenses back home, provided this stipulation appears in the contract. If the worker refuses to submit to arbitration, the contract will be held to have terminated without

obligations on the employer.

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## Hours of Labor and of Rest.

THE law establishes the maximum 8-hour day as the legal working day in shops, factories, foundries, agricultural pursuits, private offices, and mercantile and mining enterprises, and in general in every kind of day work. The law stipulates seven and one-half hours as the maximum number of hours which a laborer shall be permitted to work at night. Day work is defined as being all work done between 7 a. m. and 8 p. m., and night work as that done between 8 p. m. and 6 a. m. The law contains a further classification of the workday, the so-called "mixed day," in which the working period includes both day work and night work.

In continuous industries and those which require special hours for the work, the employers and workers shall make a mutual agreement

as to the exact division of working hours and rest periods.

Overtime work, i. e., all work in excess of the maximum workingday, is permitted only under extraordinary circumstances and by mutual agreement between the employers and workers. The law further provides that overtime work shall not exceed three hours per day and shall not be required on more than three consecutive days, nor more than 50 days in the year.

Employment of minors at overtime and night work is prohibited by the law. It sets the maximum day's work for children over 12 and under 15 years of age at four hours, and for those between 15

and 16 years of age at six hours.

Employment of women after 10 o'clock at night in factories, private industrial shops, or mercantile establishments is prohibited. Although eight hours constitute the maximum working-day for women, six hours shall be the maximum for pregnant women.

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## Rest Periods and Weekly Day of Rest.

The law provides that the workday shall not be continuous, but that the employees shall be granted periods of rest in addition to their mealtime, to be fixed by mutual agreement between employers and workers. The law stipulates that for six days of work there must be one day of rest, and establishes Sunday as the obligatory rest day. The 1st of January and the 16th of September of each year shall be obligatory holidays. If the Sunday rest day interferes with the normal functioning of an establishment which affects public service, another day during the week shall be selected for the rest day or the shift system of work shall be employed.

Employers shall allow all workers who have been in their employ

for over one year 15 days' vacation each year with pay.

## Wages.

WAGES are defined by the law of Durango as the pecuniary remuneration paid by the employer to the employee in return for services rendered. The wages should be sufficient, according to the conditions prevailing in the district, to satisfy the normal needs of life of the workman, his clothing, education, and lawful pleasures, considering him as the head of a family. Equal compensation shall be paid for equal work, no discrimination being made because of age, sex, or nationality. All wages shall be paid in legal currency and not in counters, orders, cards, or any other substitutes for money. If under special circumstances it becomes necessary to increase the working hours, overtime shall be paid for at double the regular rate. All wages must be paid at regular periods agreed upon in the contract which must not exceed 15 days, except in the case of private office employees, workers in mercantile establishments, and domestic servants, who shall be paid once a month. In factories, agricultural undertakings, and industrial and mining establishments, the employees shall be paid each week. Wages must be paid directly to the worker or to some one designated by the worker, and such payment must be made at the place of employment and not in stores, restaurants, cafés, canteens, and the like.

Wages may not become the subject of attachment, set-off, or discount unless authorized by judicial or administrative authority.

The law provides that the payment of wages to minors under 16 years of age is valid unless the parent or guardian of the employee who authorized the employment contract opposes such payment. In such case the employer shall notify the minor and turn the wages over to the mayor, who shall dispose of it to the best interest of the minor employee.

If the wages of a worker are determined by the size, quality, weight, or measure of the goods produced, he shall have the right to be present or to send a representative when the rate of payment

is being determined.

Establishments which allow employees to participate in the profits of the business shall also allow the worker or his representative to examine the books of the firm to determine the amount of the profits

which he is to receive.

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In the following instances employers are obliged to advance payment of one month's wages to their employees: (1) When the worker suffers an accident, for which the employer is not liable, which prevents him from working; (2) in case of sickness of a member of the employee's family; (3) in the event of the marriage of the worker or of his children; (4) in case of the death of a member of the employee's family. The wages advanced shall be repaid by deductions from his wages in amounts not exceeding 20 per cent of the sum loaned. The employee shall not be compelled to pay interest on this loan.

In case of bankruptcy or dissolution of the firm, salaries or wages and compensation due employees shall be preferred claims under the

law of Durango.

Hygiene and Safety.

## Employers' Obligations and Responsibilities.

THE law requires employers in agricultural, industrial, mining, or similar classes of work who employ more than 100 workers to furnish comfortable and sanitary dwellings for their workmen, for which they may charge annual rents not exceeding 6 per cent of the assessed value of the property. The employers shall also provide schools, dispensaries, and other services necessary to the community. When the population in a labor center exceeds 200 the employer must provide a tract of land of not less than 5,000 square meters (1.235 acres) for the establishment of public markets and the construction of buildings designed for municipal services and places of amusement. Gambling houses and stores which dispense intoxicating liquors are prohibited in these labor centers.

According to the law all employers must see that the work is done under the most favorable conditions from the standpoint of the safety and health of the workers. They shall adopt adequate accident prevention measures, and inform workers how to prevent accidents

in the use of machines and other instruments.

In mines, canals, and drainage systems, and in general all undertakings in insanitary regions in Durango, the spread of malarial or infectious diseases shall be prevented as far as possible.

Great care shall be exercised in the handling of poisonous materials,

to prevent the employees' health being undermined.

The law contains a provision requiring employers to provide firstaid treatment, as well as necessary medicines, in case of accident to the workers. The law provides for labor inspectors, who shall see that all safety and hygiene regulations are carried out. They may order defective machines which endanger the welfare of the workers stopped for immediate repair.

## Employees' Obligations.

All workers must abstain from imprudent acts which may endanger the safety of themselves, of their fellow workers, or of the factory, shop, or other work place. In case of grave danger in the establishment, the workers shall give assistance in every possible way without demanding pay for overtime. Workers shall advise their immediate superiors, or the employer himself, of any imperfections or breaks in the machinery, in order to avoid accidents. Employees shall not clean or oil machines while in motion, nor order apprentices to do so.

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## Shop Regulations.

THE law contains provisions requiring shop regulations (reglamentos de los talleres) in industrial, commercial, and agricultural establishments, in permanent labor camps, and in other labor centers, providing there are 10 or more employees. These regulations, based on the employment contracts, shall determine clearly the functions of both employers and employees. After the rules have been approved and registered by the municipal and central boards of conciliation and arbitration, a copy shall be posted in a conspicuous place on the premises. The workers are not to be denied the privilege of obtaining

copies if they so desire.

Specific points which must be included in the shop rules are as follows: The rate of wages or earnings; the time of assigning materials and of receiving work done outside of the establishment; the hour of beginning and of stopping work; and the time allotted for rest periods and for the noonday meal. There shall be instructions in the shop regulations for the cleaning of machinery, other apparatus, and the interior and exterior of the factories, specifying when this shall be done and indicating precautions to be taken. The names, shall be done and indicating precautions to be taken. rights, and obligations of the managerial force and the inspection officers are to be clearly stipulated. Provision for a safe, orderly, and healthful place of employment and practical instruction in first aid and warnings to avoid accidents shall be contained in the shop There shall be a statement of the inspection rights of the The law also provides that the shop rules shall contain an exact copy of those articles in the employment contract which refer to (1) the termination of contracts, (2) the worker's participation in a strike, and (3) the punishment imposed on strike agitators. Regulations prohibiting employers from abusing the workers by word or deed, and from withholding the wages of a worker on the pretext of a fine, shall also be included. Neither collections nor subscriptions shall be permitted in the establishments. The rules shall stipulate the punishment for violations of the regulations. Any other provisions common to labor codes, for the better execution of the work, may be added to the rules. Unless the provisions of the regulations agree with the terms of the employment contract and with the labor laws they shall be null and void. Before signing a contract all workers must be made acquainted with the contents of the shop regulations and promise to comply therewith.

Employers shall compensate employees for all damages suffered on account of negligence or disobedience of shop rules on the part of

the employer or his representatives.

# Workmen's Compensation.

THE law stipulates that the employer is liable for industrial accidents and occupational diseases suffered by his employees arising out of the employment.

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## Employments Covered.

The compensation law of Durango covers work in factories, workshops, industrial undertakings, mining and quarry operations, metallurgical works, foundries, stevedoring, and all construction work. State and municipal employees are included under this law when their work endangers their life or health.

## Injuries Covered.

The law defines an industrial accident as an injury caused by some fortuitous event during the employment. An occupational disease is defined as any illness which is contracted by work in damp or unhealthful places or by the constant use of injurious substances in the manufacture of explosives, inflammables, or poisons.

Injuries are not compensable when they are due to the employee's willful misconduct, gross negligence, or to a cause foreign to the

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Employers are liable for industrial accidents or occupational diseases suffered by the employees even when the labor contract is made through an agent (intermediario).

## Compensation Benefits.

The compensation scale is based upon the earnings of the injured

employee:

Death.—For death from industrial accident or occupational disease the employer shall pay the beneficiaries compensation equal to two years' wages of the deceased and, burial expenses of 50 pesos (\$24.93, par). In fatal cases for which the employer is not liable he shall pay one month's wages of the deceased employee to his dependents or the burial expenses if there are no relatives. Death benefits shall be paid within eight days to the widow or next of kin.

Permanent total disability.—An employee who is permanently and totally disabled as the result of an industrial accident or occupational disease shall receive compensation amounting to two years' wages. Blindness, paralysis, loss of fingers, etc., are considered as

permanent total disability.

Permanent partial disability.—In cases of permanent partial disability resulting from accident the employer shall furnish the employee other suitable employment with equal pay and may not discharge him for a period of two years from the time of the accident. The law describes permanent partial disability as that which permanently incapacitates the employee for the performance of the work which he was doing at the time of the accident. Compensation benefits for permanent partial disability shall be paid to the employee within eight days after his complete recovery.

Temporary disability.—For temporary disability employers are required to pay employees their full wages from the time of the injury until they are able to return to work and furnish medical attention

and medicine.

Medical service in ordinary illness.—Employers are required to furnish medical attention for employees who are ill through no fault of their own and also to pay them one-half of their regular wages for a period not exceeding 30 days.

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The provisions of the law regarding workmen's compensation are administered by award of the central board of conciliation and arbitration, and the award is enforced by the municipal board.

# Admiralty Jurisdiction Over Stevedores.

HE Supreme Court of the United States on February 25, 1924. had before it a case (State of Washington v. W. C. Dawson & Co.) from the Supreme Court of Washington, and another (Industrial Accident Commission of the State of California v. James Rolph Co.) from the Supreme Court of California, involving the constitutionality of the act of Congress of June 10, 1922, with reference to stevedores and longshoremen. The decision of the Supreme Court of Washington (122 Wash. 572) was followed by that of California in declaring the act in question unconstitutional, and the cases came to the Supreme Court of the United States on writs of error. decisions were based on the ruling of the Supreme Court on an earlier statute of similar intent. (Knickerbocker Ice Co. v. Stewart, 253 U. S. 149, 40 Sup. Ct. 438.) There the act in question was an amendment of the Judicial Code (40 Stat. 395, act of October 6, 1917). which undertook to give the rights and remedies under the workmen's compensation law of any State to claimants in admiralty and maritime jurisdictions. Following the declaration of invalidity of this statute, the amendment of 1922 was enacted, limiting compensation relief to persons other than the master or members of the crew, the intention being to make the law applicable only to local workers such as stevedores and longshoremen.

The State courts, holding that Congress could not thus create a diversified remedy in the field in which the uniformity of the maritime law must be protected under the rulings of the Supreme Court were sustained in the present case, the Supreme Court saying: "The judgments below must be affirmed; the doctrine of Knickerbocker Ice Co. v. Stewart, to which we adhere, permits no other conclusion." The act of 1922 undertook to do substantially what the act of 1917 proposed, the court holding that "the exception of master and crew is wholly insufficient to meet the objections to such enactments heretofore often pointed out." It had been said by the court in an earlier case that "no such [State] legislation is valid if it contravenes the essential purpose expressed by an act of Congress, or works material prejudice to the characteristic features of the general maritime law, or interferes with the proper harmony and uniformity of that law in its international and interstate relations." (Southern Pacific Co. v. Jensen, 244 U. S. 205, 37 Sup. Ct. 524.)

The contention was made that subsequent decisions of the court had modified this position, but this contention was denied. It was again pointed out that to sanction such action as was contemplated by the attempted amendment to the Judicial Code would lead to a transfer by Congress of its legislative power to the States, a function that is "by nature nondelegable."

As to the power of Congress itself the opinion declared:

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Without doubt Congress has power to alter, amend, or revise the maritime law by statutes of general application embodying its will and judgment. This power, we think, would permit enactment of a general employers' liability law or general provisions for compensating injured employees; but it may not be delegated to the several States. The grant of admiralty and maritime jurisdiction looks to uniformity; otherwise wide discretion is left to Congress. Exercising another power—to regulate commerce—Congress has prescribed the liability of interstate carriers by railroad for damages to employees (act April 22, 1908;

ch. 149, 35 Stat. 65) and thereby abrogated conflicting local rules.

This cause presents a situation where there was no attempt to prescribe general rules. On the contrary, the manifest purpose was to permit any State to alter the maritime law and thereby introduce conflicting requirements. To prevent this result the Constitution adopted the law of the sea as the measure of maritime rights and obligations. The confusion and difficulty, if vessels were compelled to comply with the local statutes at every port, are not difficult to see. Of course, some within the States may prefer local rules; but the Union was formed with the very definite design of freeing maritime commerce from intolerable restrictions incident to such control. The subject is national. Local interests must yield to the common welfare. The Constitution is supreme.

This opinion, delivered by Mr. Justice McReynolds, was dissented from by Mr. Justice Holmes, who said simply that "the reasoning of Southern Pacific Co. v. Jensen and cases following it never has satisfied me and therefore I should have been glad to see a limit set to the principle. But I must leave it to those who think the principle right to say how far it extends." Mr. Justice Brandeis, however, wrote a vigorous dissent, pointing out incongruities that are already

embodied in admiralty jurisprudence, in brief, as follows:

An employee of a New York upholstering concern might be directed to do repair work on a vessel owned and enrolled in New York, employed wholly within the State, and at the time lying for repairs alongside a New York dock. If injured without fault and disabled while at such work, he would, under the New York compensation law, be entitled to relief. Congress undertook in express terms to sanction this relief in a case such as that above described, but the rule announced by the Supreme Court is to the effect that the Federal Constitution prohibits such recovery. If this same employee had met with an accident while on the dock in connection with the same employment the Constitution would permit recovery. Moreover, if he had been killed while on board the vessel through the negligence of the employer his dependents might have recovered, not under maritime law, but under a statute of New York, the operative effect of this statute being held permissible under the Constitution.

Mr. Justice Brandeis in his argument stated that the chain of reasoning followed by the majority depended upon the soundness of every link of the chain. "If any link fails, the argument falls. Several of the links are, in my opinion, unfounded assumption which crumbles at the touch of reason." Cases were cited to uphold the statement that "absolute uniformity in things maritime is confessedly not essential to the proper harmony of the maritime law in its interstate and international relations." The efforts of Congress were said to be an attempt "in a statesmanlike manner, to limit the practical scope and effect of our decisions in" the Jensen and Knickerbocker cases, so as to be applicable only to the relations of the ship

<sup>&</sup>lt;sup>1</sup>See Monthly Labor Review, February, 1924, (pp. 186-192). "Status of maritime workers injured in the course of employment."

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to her master and crew, but not to the localized employees such as stevedores, etc. Persuasive reasons were found for recognizing such legislation, overruling other decisions if necessary. Otherwise a constitutional amendment will be required to permit the application of the various local laws, "for no Federal workmen's compensation law could satisfy the varying and peculiar economic and social needs incident to the diversity of conditions in the several States."

# Restriction of Marketing of Building Materials Shipped in Interstate Commerce.

THE widely advertised effort of the Industrial Association of San Francisco to enforce what it designated the "American plan" in the local building industry reached a Federal court in November, 1923, on the ground of interference with interstate commerce in violation of the Sherman Act (United States v. Industrial Association, 293 Fed. 925). The United States brought action against the defendants, about 40 in number, among them the Builders' Exchange and the Industrial Association, together with corporations, individuals, and partnerships belonging to each. A system had been established under which no one could chase building materials covered by the system without a permit from the Builders' Exchange, and this permit could be obtained only on a pledge to run the job on the American plan. The plan contemplated the employment of union and nonunion men in equal proportions, with a nonunion foreman on each job. The court announced itself as not lawfully concerned with the merits or demerits of the plan or with the recurring conflict between employers and labor unions; but if a Federal law was contravened it must take note of the fact and seek to prevent such contravention or to punish those involved in it.

As the system was first established only local products, such as lime, cement, plaster, ready-mixed mortar, rock, sand, gravel, brick, and all clay products, were covered. Intention to interfere with interstate commerce was disavowed, but later other materials were brought under the permit system, some or all of which were produced without the State. For instance, plumbers' supplies, which are manufactured for the most part without the State, while not dealt with directly by the permit system, were controlled by "refusing a permit to purchase the materials that were under the system to anyone who employed a 'bad plumber;' that is to say, one who was

The court found a concert of action to maintain the American plan, involving the use of a permit system which included not only articles produced within the State but those which come in interstate commerce from without, and an indirect control of plumbing supplies through the requirement that only "good plumbers" shall be employed before a contractor can have a permit. "However little intended to interfere with interstate commerce, as claimed by the defendants, the result of their concerted action is such an interference therewith as under the Sherman Act can not be tolerated."

not operating under the American plan."

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The court announced no desire to curb the activities of the organizations other than necessary for the protection of interstate commerce. The organizations were not dissolved nor their general activities interfered with, but there was an injunction against the requirement of any permit with reference to materials or supplies produced without the State and coming in in interstate commerce; also against any attempt to prevent or discourage persons without the State from shipping goods to any persons whatever within the State. Compliance in good faith with this decree would avoid disturbance of other activities, but the right to modify the decree was reserved, so as, if necessary, to include the dissolution of certain of the defendants.

# Conspiracy to Collect Money for Strike Settlement.

URING the course of a large building operation in the city of Chicago a jurisdictional dispute developed, one McCumber, a contractor for the carpenter work, becoming involved in a difficulty between carpenters and ironworkers. The subject matter was The carpenters the installation of wooden doors in an iron framework. claimed that they should hang the doors, but McCumber had contracted with the ironworkers for the job. In the controversy that followed an understanding was reached, according to McCumber's testimony, with the business agent of the local union of carpenters that if the carpenters were allowed to apply the hardware to the doors the business agent would permit the ironworkers to install them. The agent, one Seefeldt, admitted that this was the understanding, but later said that his superiors overruled him and that the doors should be hung by the carpenters alone. The ironworkers began the work and declined to stop. The carpenters' representatives thereupon had a conference with McCumber and the architect in charge, but reached no solution of the difficulty. The president of the district council, after some conversation, said: "Is that all you have got us over here for?" The architect replied that if anything was implied by this remark he wished to say that his office had never paid tribute and never would, whereupon the first speaker replied: "If that is all you have to say, let's go." McCumber went down with the union representatives in the elevator and asked what could be done to get the carpenters back to work. To this the local president, Brims, said: "Mr. Seefeldt will call over to your office and see you about it, and I think you can get it settled." Seefeldt called and said the men would have to be paid for their lost time, about \$400. Subsequent computations reduced the amount to \$225, which was paid, Seefeldt promising that the men would go back to work next morning, which they did. McCumber testified that before Seefeldt left he said: "Mac, I don't approve of this sort of thing at all; I don't like it, but I have to do it; I am made the goat by the higher-ups," and told McCumber that they must keep the matter to themselves.

Based on the above incidents a prosecution for conspiracy was brought against Brims, the district president, and Seefeldt, the local business agent, and they were found guilty of conspiracy in the courts below, the judgment being affirmed in proceedings in the supreme court. The court found no showing that the primary object in calling this strike was for the benefit of the union or its members.

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The strike had not been sanctioned as provided in the agreement, and there was no evidence tending to show that any of the \$225 was paid to the workmen, but rather to the contrary. McCumber did make payments on account of the time the carpenters lost, and that amount was charged to the owner of the building. Furthermore, the ironworkers were afterwards permitted to finish the work which had previously been made the occasion of the strike, without any jurisdictional question being raised. This, with the fact that the \$225 was not paid to the men who were called on to strike, was said to tend to discredit the contention that the strike was brought to benefit the union or the men.

The jury having passed on the weight of the disputed testimony, and the errors assigned offering no reversible cause, the judgment of the court below was affirmed (People v. Seefeldt, 141 N. E. 829).

# Awards Concerning Duration of Bonus Offered New York Brick-layers.

TUSTICE Ford, of the Supreme Court of New York, has recently (February 2, 1924) made an arbitration award in a dispute between the Mason Builders' Association and the Bricklavers' Unions of Greater New York, sustaining the contention of the union. The disagreement arose over a ruling adopted by the union during the high peak of building activity in New York City in the summer of 1923. There was a scarcity of bricklayers, and employers were offering bonuses over and above the established union wages. unions adopted a rule that if an employer paid higher than union rates to any bricklayers on a particular operation all union bricklayers on the job should receive the same higher wages, and that these wages should continue during the life of the job. By September the demand for bricklayers began to fall off, and the employers who were conducting certain operations, finding that they were now able to get bricklayers without difficulty, wished to discontinue paying the bonus. The unions denied their right to do this, and the matter went through the usual procedure for such cases, Justice Ford being finally selected as arbitrator.

Reviewing the conditions which led up to the adoption of the rule in question, Justice Ford decided that it was fair and reasonable and should be enforced. The following is quoted from the award:

The unions manifestly could not reasonably be expected to forbid their members from accepting the higher wages offered them, and it is doubtless true that any effort to do so would prove futile.

The unions therefore adopted a rule whose purpose it was to discourage employers from enticing men from one operation to another by offering higher wages. Stability, certainty, uniformity of wages, continuity of employment, were sought. While temporary advantage might be gained by individual workmen through higher wages, the system did not work to the advantage of either side in the long run. \* \*

Practically it is the fairness of this rule which is under consideration, for the employers are urging their right to reduce the wages of the men on the jobs in question before they are finished. This reduction has been made practicable because of the seasonal falling off in the demand for bricklayers.

<sup>&</sup>lt;sup>1</sup>From typewritten copy of decision, dated Feb. 2, 1924, of Supreme Court Justice John Ford, of New York, "In the matter of controversy between bricklayers' unions and mason builders' association."

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It has been urged with no little force on behalf of the unions that it would be unfair to the men who were enticed to the jobs by higher wages than the union rate to reduce their wages before the end of the operations concerned, simply because the law of supply and demand now makes that reduction possible. It is contended on behalf of the men that their expectation was to have steady employment at the wages offered during the life of the job. That is an implied condition of every employment, unless by its terms contrary conditions are agreed upon. Continuity of employment during proficient service is a tacit understanding ordinarily between employer and employee, modified of course by the nature and peculiar circumstances of the employment.

As to the law of supply and demand, the agreement under which harmonious relations between the parties have so long continued is in essence the negation of the free play of that law as the sole determining force in the fixation of wages and the conditions of employment. Labor unions exist to act as a corrective check on that law as it practically operated before labor was organized. \* \* \*

check on that law as it practically operated before labor was organized. \* \* \*

The claimed right of the employers to reduce wages rests upon the law of supply and demand. Their arguments as presented to me boil down to that. There are so many more men available now to do their work they find it possible to reduce wages on the uncompleted work and they naturally want to do so.

There is much reason in their contention but on the whole I am of the opinion that fairness, common sense, and a consideration of the best interests of both sides as I see them, require me to decide that the rule of the unions is just and that the higher wages should be paid during the life of the operations. \* \* \*

It does not seem to me that any hardship will be inflicted upon anyone by this decision. Builders and owners, it may reasonably be assumed, knew what they were doing when they undertook their work at the high rates of wages then paid upon the jobs in question here. Payment at those rates during the life of the job must have been in contemplation at the time of undertaking every operation. My understanding is that most, if not quite all of them, will be finished shortly. On all new work, the employers may employ men at the union rate. I believe that it will be to the advantage of all in the long run if the higher rate be paid on the uncompleted operations until they are finished. I answer the question in the affirmative.

## COOPERATION.

# Cooperative Housing in New York City.1

THE problem of housing accommodation is being solved cooperatively in various places not only in Europe, but in the United States, although very little was done along this line in the United States until 1920. Accounts and statistics of these cooperative housing societies in various countries have appeared from time

to time in the Monthly Labor Review.2

It is stated that "the idea of cooperation in housing began to receive attention after the passage of the State emergency rent laws four years ago and the subsequent enactment of the tax exemption law for the stimulation of building." Here and there, throughout the city, experiments in cooperative housing were begun by groups of wage earners of moderate incomes but these were not advertised and thus made little impression on the public. A "preliminary survey" of cooperative housing recently made disclosed the fact that in Greater New York, up to the present time, more than 500 families have been provided with housing facilities by cooperative effort.

The greatest results have been obtained by a Finnish colony in Brooklyn, whose housing efforts began to take shape as early as 1916 when one building was erected. Since then building after building has been built or bought, and now these Finns own cooperatively 10 apartment houses, accommodating 450 families or about 2,250 per-

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sons. The rents range from \$30 to \$50 per month.

Another group of cooperative dwellings has been provided chiefly through the efforts of the pastor of the People's Tabernacle in Manhattan. This work has been carried on in connection with the church, which is interdenominational. Three years ago, the church bought an apartment house, apartments in which it offered for sale on the cooperative plan. Since then four others have been added.

In the genuine cooperative housing association the capital stock is all held by the tenant members, the amount held by each being in proportion to the size and cost of his apartment. No tenant receives title to his apartment or dwelling, for he does not own a house, strictly speaking; he simply owns stock in the association. The object of this is to prevent speculation. If a tenant desires to move away he sells his shares back to the association.

To eliminate all speculation in houses, the cooperative society as a whole must always own and control the title to both the land and the building. This not only tends to eliminate exploitation of the tenants, but also prevents their exploitation of others at any time. The so-called unearned increment of land values is also preserved in this way to the whole group. The cooperative company, not the individual, profits by any increase in the valuation of the property. It is not the purpose of cooperative building societies to enable tenants to obtain homes at bottom prices by building collectively and then to allow the individuals to own and sell them to others for profit. The purpose of cooperative building societies is to provide permanent homes for the people without private profit or speculation in land and buildings, collectively controlled and administered by the tenant members.<sup>3</sup>

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<sup>&</sup>lt;sup>1</sup>Data are from New York Times, Feb. 24, 1923, Section 8, p. 8.

<sup>2</sup>See issues of Monthly Labor Review for information on cooperative housing in the following places: Brooklyn, October, 1921, p. 172; Milwaukee, December, 1922, pp. 155-158; Czechoslovakia, December, 1923, p. 198; Germany, January, 1923, p. 206; Great Britain, July, 1923, p. 237; Netherlands, March, 1924, p. 195; Poland, December, 1923, p. 200; and Switzerland, October, 1921, p. 171, and March, 1924, p. 196.

<sup>2</sup> Report of committee on cooperative housing to Third Congress of the Cooperative League, at Chicago, Oct. 26-28, 1922. See Monthly Labor Review, December, 1922, p. 157.

# Cooperation in Foreign Countries.

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THE following table taken from The People's Yearbook (Manchester, England), 1924, p. 93, shows the condition of the Union of German-Austrian Consumers' Societies since the war. The decline in the number of members in 1922 was attributed to the withdrawal of two societies with a combined membership of 140,851.

ACTIVITIES OF MEMBERS OF GERMAN-AUSTRIAN COOPERATIVE UNION, 1919 TO

[Krone at par=20.3 cents.]

		p	-20.0 Cents	,	
Year.					
	Affiliated so- cieties.		Number		Wholesale society:
	Total num- ber.	Num- ber re- porting.	of members.	Amount of business.	ness.
1919 1930 1921	112 103 97 108	103 96 90 84	370, 866 503, 622 574, 116 511, 019	Kronen. 572, 771, 278 1, 822, 130, 224 10, 388, 278, 304 221, 971, 570, 701	Kronen. 486, 422, 347 2, 028, 650, 817 10, 063, 182, 027 194, 496, 224, 034

In addition to the 108 consumers' societies in existence in 1922 as shown above, the membership of the union includes 33 workers' productive societies, 22 building societies, 6 credit societies, 3 purchasing associations, and 1 insurance society.

## Canada.

DURING the year ending August 31, 1923, the United Grain Growers (Ltd.) had a business of \$53,332,982 and a net saving of \$532,171, according to the February 11, 1924, issue of Agricultural Cooperation (Washington). Interest of 8 per cent was paid on the capital stock. During the previous year the association sustained a loss of \$118,350.

#### Czechoslovakia.

THE Statistical Office of the Czecho-Slovak Republic has issued a report (No. 30) on credit societies of the Schulze-Delitzsch type. The following table, compiled from the report, shows the number of these societies and the number of depositors and borrowers, by geographical division, at the end of 1921:

STATISTICS OF DEPOSITS AND LOANS OF CZECHOSLOVAK CREDIT SOCIETIES, 1921, BY GEOGRAPHICAL DIVISION.

[Krone at par=20.3 cents.]

	Latione	ac pin	20.0 Cents.				
m bundatenti nan aserola	Number of societies.				Aver-		Aver-
Geographical division.	Total num- ber.	Num- ber report- ing.	Number of mem- bers.	Number of deposi- tors.	deposit per deposi- tor.	Number of bor- rowers.	loan per bor- rower.
Bohemia Moravia Silesia	809 512 57	793 509 54	323, 032 194, 341 17, 085	1, 073, 641 397, 285 30, 560	Kronen. 2, 970 3, 046 2, 497	196, 298 119, 192 9, 223	Kronen. 9, 892 5, 566 6, 617
Whole country	1, 378	1, 356	534, 458	1, 501, 486	2, 981	324, 713	8, 180

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At the end of 1921 the financial condition of the societies was as follows:

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	Kronen.
Amount of loans on personal credit	1, 737, 335, 000
Share capital	86, 812, 000
General reserve funds	79, 095, 000
Employees' retirement fund	10, 238, 000
Profits.	21, 487

#### Denmark.

THE following figures, taken from the February, 1924, number of the International Cooperative Bulletin (p. 51), show the business done by Danish cooperative societies in 1922 and 1923:

BUSINESS OF DANISH COOPERATIVE SOCIETIES, 1922 AND 1923, BY TYPE OF SOCIETY.

[Krone at par = 26.8 cents.]

Type of society.	1922	1923
	Kroner.	Kroner.
Feedingstuffs societies	101, 500, 000	107, 000, or
Manure societies	16, 000, 000	17, 500, 00
Agricultural wholesale society and machine factory	5, 800, 000	4, 700, 00
Cement factory	2, 500, 000	4, 800, 00
Coal supply society	2, 800, 000	3, 100, 0
Cooperative farms	535, 000, 000	665, 000, 0
Cattle export societies	34, 000, 000	29, 000, 00
Cooperative butcheries:		-0,000,0
Meats	330, 000, 000	395, 000, 00
Eggs	12, 600, 000	12, 000, 0
Egg export society	15, 000, 000	14, 700, 00
Cooperative seed society	6, 100, 000	4, 200, 0
Milk export of cooperative farms		6, 000, 0
nsurance society "Tryg"	4, 000, 000	3, 900, 0
ceident insurance of cooperative farms and agricultural societies	2,000,000	2, 200, 0
Accident insurance society "Sogneraads"	200, 000	200, 0
Cooperative pension fund		500, 0
Cooperative sanatorium	500, 000	500.0
Vholesale Society of Danish Distributive Societies	174, 600, 000	123, 400, 0
Ringköbing Goods Purchase Association	5, 000, 000	4, 900, 0
Total	1, 248, 100, 000	1, 398, 600, 0

It is stated that the business of the consumers' societies during 1923 decreased 29 per cent from that of the year before while the trade of the agricultural societies increased 22 per cent

## France.

LA VOIX DU PEUPLE, Paris, for November-December, 1923, contains (pp. 516, 517) an agreement which has been concluded between the General Confederation of Labor of France and the Consultative Chamber of the Workers' Cooperative Productive Associations. By this agreement the cooperative societies bind themselves to apply to the proper trade-union when employees are needed and not to obtain workers elsewhere unless the union is unable to supply them. In the latter case the new employees must join the union.

In case of a strike in private employments, workers employed by cooperative societies, who are members of the trade-union involved in the strike, shall not take part in the dispute but shall continue to work. They must however give both moral and financial support to the strike. The cooperative societies on their part agree to put into effect

immediately any change in working conditions contained in the union's demands. In case the strike is not successful in gaining all these demands, only those conditions which are won shall be retained in effect by the cooperative societies. Changes in wages are not to be made until immediately after the termination of the strike, but the new rates gained through the strike shall be retroactive to the first day of the dispute.

In cases in which no collective agreement with the establishments against which the strike was directed is obtained, and in which there is a difference of opinion as to the actual gains of the strike, the matter must be referred to a joint commission composed of an equal number of representatives of the cooperative society and of their employees, the representatives of the latter being chosen in part from persons

named by the union.

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When a general or partial protest strike "of a social character" is called by the General Confederation of Labor, the question of participation by the employees of cooperative societies shall be decided by the confederation and the societies must abide by its decision.

Disagreements of all kinds as to working conditions, hiring, firing, wages, etc., which can not be decided by the joint commission above mentioned shall be referred to an arbitration committee of four members, two selected by the General Confederation of Labor and two by the Consultative Chamber of Workers' Cooperative Productive Associations.

Germany.

THE annual report of the central credit union organization of Germany, the General Union of Raiffeisen Societies, for 1922, reviewed in the February, 1924, issue of the International Cooperative Bulletin (pp. 53, 54), shows that at the end of the year there were in affiliation with the union 8,017 societies as compared with 7,461 at the end of the previous year. Of these, 5,524 were credit societies proper, while the remainder were noncredit organizations. The net savings of these societies for 1922 amounted to 68,600,000 marks<sup>2</sup> and the reserve funds to 74,205,000,000 marks.<sup>2</sup>

#### Great Britain.

THE business of the English Cooperative Wholesale Society during 1923 amounted to £66,120,000 (\$321,772,980, par), an increase of £215,188 (\$1,047,212, par) as compared with the previous year, according to the February, 1924, issue of the International Cooperative Bulletin (p. 61). About a third of the sales of the society consists of goods manufactured by it; the manufactures of the society during 1923 were valued at £20,611,005 (\$100,303,456, par).

For the past 21 years the English and Scottish Wholesale Societies have carried on certain enterprises together. The original partnership formed to carry on the management of the tea plantations owned jointly by the two societies expired recently. The directors of the wholesales have decided to found a new society, composed of the board members, under the name "E. & S." Cooperative Wholesale Society (Ltd.), whose functions will be the carrying on of "the busi-

<sup>&</sup>lt;sup>2</sup> Owing to the depreciation of German currency no attempt is made to convert this sum into the United States equivalent.

ness of planters, growers, producers, merchants, and manufacturers. commission agents, and brokers of tea, coffee, cocoa, and foreign and colonial produce in all their branches, and any other trade or business which may seem calculated to conduce to the more efficient and profitable working of the said business."

Statistics of The Cooperative Union, 1922.

Certain statistics of the activities of The Cooperative Union and its members during 1922 are given in the 1924 People's Yearbook (pp. 18-26). The following table, taken from the above source. shows the financial status of members of the union:

ACTIVITIES OF MEMBERS OF COOPERATIVE UNION IN 1922, BY TYPE OF SOCIETY. [£ at par=\$4.8665.]

Type of society.	Num- ber of socie- ties.	Number of mem- bers.	Share and loan capital.	Sales.	Net surplus.	Num- ber of em- ployees
Consumers' societies Consumers' federations Productive societies Supply associations Special societies	1, 321 6 105 4 6	4, 519, 162 64 38, 138 8, 542 1, 034	£84, 891, 998 46, 757 2, 938, 786 496, 742 82, 755	£169, 582, 357 133, 434 5, 318, 077 1, 856, 540 1, 729, 853	<sup>1</sup> £14, 060, 291 7, 722 <sup>2</sup> 314, 904 50, 686 <sup>3</sup> 28, 537	128, 03 3 10, 779 1, 525 2, 070
Wholesale societies	1, 445 1, 472	2, 149 4, 569, 089 4, 598, 737	31, 951, 612 120, 408, 650 118, 503, 763	83, 600, 549 262, 220, 810 334, 383, 138	4 736, 868 15, 199, 008 18, 231, 829	40, 74 183, 19 187, 97

<sup>1</sup> Total net surplus of societies showing a surplus; some societies showed a loss, the total being £139,226. 3 Before deducting a loss of £62,652.

3 Before deducting a loss of £166.

4 Before deducting a loss of £20,877

The following table shows the same data for the consumers' societies, classified according to geographical divisions:

STATISTICS OF OPERATIONS OF CONSUMERS' SOCIETIES IN 1922, BY GEOGRAPHICAL DIVISIONS.

I£ at par=\$4.8665.1

Geographical division.	Num- ber of socie- ties.	Number of members.		Amount of business.	Net sur- plus.
Retail societies: England and Wales Scotland Ireland	1, 027 255 39	3, 819, 881 654, 384 44, 897	£71, 742, 786 12, 497, 609 651, 603	£133, 381, 269 34, 573, 462 1, 627, 626	£10, 097, 951 3, 888, 848 73, 492
Total	1, 321	4, 519, 162	84, 891, 998	169, 582, 357	14, 060, 291
Wholesale societies: English Scottish Irish		1 1, 195 1 270 1 684	25, 507, 090 6, 151, 587 292, 935	65, 904, 812 17, 009, 251 686, 486	420, 063 316, 805 2 20, 877

<sup>1</sup> Number of affiliated societies.

2 Loss.

The consumers' cooperative societies, wholesale and retail, farm 74,2574 acres of land, of which they own 63,2544 acres and rent 11,003 acres. The tea plantations owned jointly by the English and Scottish Wholesale Societies cover 5,699 acres in Ceylon and 28,617 acres in India.

Greece.3

THE cooperative movement in Greece dates back only to 1914, in which year a law was passed authorizing the formation of cooperative societies, granting them postal facilities and various exemptions from taxation, and providing penalties for persons him-

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Article "La coopération agricole en Grèce," in Annales de la Mutualité et de la Coopération agricoles, Paris, March-April, 1923. Reviewed in International Review of Agricultural Economics, Rome, October-December, 1923, pp. 567-569. [904]

dering their operation or endeavoring to dissuade persons from joining such societies. A later law, that of January 22, 1919, forbade the seizing, by personal creditors or members, of agricultural produce consigned for sale by members or of the proceeds of such sales. An added stimulus was given to the formation of agricultural societies by the agrarian laws of 1917 and 1920, which provided that grants of land expropriated by the State from the large landowners might be made to agricultural associations, formed for the purpose, under the title "associations for the repurchase of land." Members of these associations usually cultivate the land under the terms of a collective lease.

At the end of 1921 the number of societies of the various types

was as follows:

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redit societies	1, 287
Consumers' societies	111
Marketing associations	133
Vine, oil, and dairy societies	75
and-holding societies	5
ivestock insurance societies	
and-purchase associations	4
arming associations	
The state of the s	
Total	1, 710

These 1,710 societies had a combined membership of 93,103 and a share capital of 7,500,000 drachmas (\$1,447,500, par).

Italy.

A CCORDING to statistics compiled by the Association of Italian People's Banks, cited in the International Cooperative Bulletin for February, 1924 (p. 56), there are in Italy about 750 people's banks of the Schulze-Delitzsch type. The 732 which reported to the association had share capital of 159,451,655 lire (\$30,774,169, par), reserves of 112,710,686 lire (\$21,753,162, par), and deposits of 3,670,989,158 lire (\$708,500,907, par). As the report points out, the amount of deposits "bears striking testimony to the general confidence placed in the people's banks."

Mexico.4

DURING the past six months 13 new peasant cooperative societies were formed in the State of Guanajuato with the aid of the Mexican Department of Agriculture. The Government has extended aid along other lines as well, in the form of Government credit, legal service, and the opportunity to purchase needed agricultural machinery at cost.

Poland.<sup>5</sup>

IN 1921 there were in affiliation with the Auditing Union of Polish Agricultural Cooperative Societies, operating in what was formerly Russian Poland, 310 credit societies, 39 purchase and sale societies, 41 dairies, 2 flour mills, and 3 central organizations, a total of 395 cooperative societies. The cooperative credit societies which were members of the union had a combined membership of 104,844 and a working capital of 680,000 gold francs (\$131,240, par). The purchase and sale societies, with a total membership of 47,633, had a working capital of 994,000 gold francs (\$191,842, par) and a business during 1921 of 874,800 gold francs (\$168,836, par).

Press release 127 of All American Cooperative Commission.
 International Labor Office. Industrial and Labor Information, Feb. 11, 1924, pp. 181, 182.

## Portugal.6

AT THE end of 1922 there were in affiliation with the National Federation of Cooperative Societies 188 retail consumers' societies, with a total membership of 91,907 and a total business for the year of 488,930 escudos.

Spain.

AN ACCOUNT of the cooperative movement of Spain is given in the February, 1924, issue of the International Cooperative Bulletin (pp. 57, 58). This article states that although the movement dates back to 1865, comparatively little progress has been made. The greatest development has taken place in the Province of Catalonia where there are in affiliation with the Federation of Catalonian Cooperative Societies (which also functions as a wholesale society) some 250 societies with a membership of 5,000 and an annual business, in 1920, of 50,000,000 pesetas (\$9,650,000, par). Even in that Province, however, "progress has been impeded owing to the local spirit which prevails. It is by no means rare to find numbers of societies in the same town with a very insignificant membership." There is no national unity in the movement, although some federation has taken place by localities or districts. There is also division along political and religious lines, resulting in a Socialist, a Catholic, and a "neutral" movement.

Attention is called to the fact that "the absence of a central organization makes it impossible to obtain a reliable report of the importance of cooperation in Spain." It is estimated, however, that there are about 940 societies with a membership of 262,000. The statement below shows the affiliation of some 780 of these societies:

Societies affiliated to—	Nu	mber.
Federation of Catalonian Cooperative Societies		250
Union of Cooperative Societies of the North of Spain		
Cooperative Union of Province of Valencia		30
National Catholic Agricultural Union		
Federation of Tarragona		20
Guipuzcoa Union		20
Other societies:		
Civil and military societies		30
Military societies.		50
Navvies' societies.		100

#### Switzerland.

THE February, 1924, issue of the International Cooperative Bulletin (London) states (p. 59) that at the end of 1923 there were in affiliation with the Union of Swiss Consumers' Societies 516 societies with a combined membership of 364,500. These societies had a working capital of 29,000,000 francs (\$5,597,000, par) and landed property valued at more than 68,000,000 francs (\$13,124,000, par), while their sales during 1923 amounted to 277,000,000 francs (\$53,461,000, par).

The Insurance Fund of Swiss Consumers' Societies during 1923 paid out in invalidity and life insurance 259,109 francs (\$50,008, par), according to a statement in La Coopération (Basel), February 14, 1924. Receipts during the year amounted to 1,160,269 francs (\$223,932, par). Funds to cover insured risks amounted to 13,480,185 francs (\$2,601,676, par).

<sup>&#</sup>x27;People's Yearbook (Manchester, England), 1924, p. 122.

# STRIKES AND LOCKOUTS.

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## Strikes in Chile in 1923.

A CCORDING to a press report <sup>1</sup> there were 41 strikes in Chile affecting 11,300 workers and causing a loss of 6,739,465 pesos (\$2,459,904.73, par) during the year 1923. Of the 11,300 strikers, 10,000 were men and 1,300 were women and minors. Efforts to obtain increases in wages and disputes over shop regulations were the main causes of the strikes. In general the strikes were unsuccessful from the standpoint of the workers, only 10 being won, while 15 were inconclusive, and 16 were lost.

# Strikes and Lockouts in The Netherlands, 1922.2

BEGINNING with 1901 the Central Statistical Office of the Netherlands has each year compiled detailed statistics of strikes and lockouts in that country. It is therefore possible to follow the strike movement for a period of 22 years. The following table illustrates this movement during the period 1901 to 1922:

## STRIKES AND LOCKOUTS IN THE NETHERLANDS, 1901 TO 1922.

				Working-days lost—		
Year.	Strikes and lockouts.	Estab- lish- ments affected.	Strikers and locked-out workers.	By striking and locked-out workers.	By workers indirectly involved.	
1901 to 1913, average	271	677 1, 138	16, 000 15, 700	365, 700 361, 400	45, 400 8, 200	
1915 1916 1917	377	953 1, 174 1, 719	15, 200 18, 100 31, 300	165, 200 249, 400 526, 500	22, 896 24, 206 14, 906	
1918 1914 <b>to 1918, a</b> verage	325	1, 910 1, 379	39, 600 24, 000	607, 200 382, 000	100, 000	
1919 1920 1921	649	4, 935 3, 014 2, 430	61, 700 66, 500 44, 700	1, 051, 900 2, 288, 600 1, 370, 300	42, 800 45, 400 13, 300	
1922	325	3, 371	44, 000	1,057,500	50, 800	

The preceding table indicates that during the period 1914 to 1918, that is during the World War, the intensity of the strike movement, measured by the number of working-days lost, did not increase greatly as compared with the period 1901 to 1913, although the number of labor disputes and of establishments and workers involved was considerably greater than in the pre-war period. In the two years subsequent to the war the strike movement gained greatly in momentum. In 1919 the Netherlands had 649 strikes, and lock-

<sup>&</sup>lt;sup>1</sup>El Mercurio, Santiago, Chile, Jan. 5, 1924, p. 3. <sup>2</sup>Netherlands. [Ministerie van Binnenlandsche Zaken en Landbouw.] Centraal Bureau voor de Statistiek. Werkstakingen en uitsluitingen gedurende het jaar 1922. The Hague, 1923. 28 pp. Statistiek van Nederland, No. 374.

outs, the greatest number in the history of the country, and although the number decreased to 481 in 1920 the number of working-days lost in that year through labor disputes reached the unprecedented figure of 2,334,000 days. In 1921 and 1922 the strike movement slowed down again, owing to unfavorable economic conditions and

extensive unemployment.

In 1922, 304 strikes occurred affecting 2,627 establishments and 32,092 striking workers and involving a loss of 778,184 working-days. The building trades account for the largest number of strikes (108). The transportation (37), food (26), woodworking (21), stone, earthen and glassware industries (21) follow in the order named. The building trades had also the largest number of strikers (7,311) and the largest loss of working-time (227,682 days). Demands relating to wages caused 68 per cent of the strikes; and next in importance were demands relating to hours of labor and to the reinstatement of discharged employees. Of the total number of strikes, 20.99 per cent ended with a victory of the strikers, 28.09 per cent were failures, 43.83 per cent were compromised, and in 7.10 per cent the result was not known.

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The number of lockouts occurring in 1922 was 21. These affected 744 establishments and 11,890 workers and involved a loss of 279,316 working-days. The food and textile industries account for the lockouts involving the largest loss of working-time, 139,047 and 99,048 days, respectively. Ten lockouts were caused by the unwillingness of the workers to accept wage reductions. From the employers' point of view 9.52 per cent of the lockouts were failures, 28.57 per cent were successful, 57.14 per cent were compromised, and in 4.76 per cent of the lockouts nothing definite was known of the result.

# CONCILIATION AND ARBITRATION.

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T 6 Conciliation Work of the Department of Labor in February, 1924.

By Hugh L. Kerwin, Director of Conciliation.

THE Secretary of Labor, through the Division of Conciliation, exercised his good offices in connection with 32 labor disputes during February, 1924. These disputes affected a total of 20,244 employees. The table following shows the name and location of the establishment or industry in which the dispute occurred, the nature of the dispute (whether strike or lockout or controversy not having reached strike or lockout stage), the craft or trade concerned, the cause of the dispute, its present status, the terms of settlement, the date of beginning and ending, and the number of workmen directly and indirectly affected.

On March 1, 1924, there were 47 strikes before the department for settlement and, in addition, 16 controversies which had not reached the strike stage. Total number of cases pending, 63.

1,250

| Dec. 22 |

Foh 1

Proposed wage cut; Fending-----

Champion Fiber Co., Canton, N. C ... | Lockout .... | Employees ....

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LABOR DISPUTES HANDLED BY THE UNITED STATES DEPARTMENT OF LABOR THROUGH I'MS DIVISION OF CONCILIATION, FEBRUARY, 1924.

rectly. rectly. 1.000 65 3 300 Men involved. Indi-53 3 1,800 2,500 30 3.000 7 3 Ending. 18 30 15 19 9 Feb. 14 1924. Jan. Feb. Jan. Feb. Feb. Duration. Feb. 12 10 Jan. 2 Jan. 14 Jan. 18 Feb. 4 Jan. 19 Begin-Jan. 31 Jan. 22 Feb. 1 Jan. 28 Sept. 1 Feb. 1 Dec. 1 ning. 1923. Feb. 1924 Jan. Feb. Unable to adjust. Refused to sign Pending. Chance of settlement very Adjusted. Returned; satisfactory agreement.
Unclassified. Mediation not desired. Pending. Many have settled; re-ceived increase. Adjusted. Increase of 40 cents a day Adjusted. Returned on piecework Adjusted. Agreement per American Federation of Musicians. Agreed except on recog-Returned; no increase.... Adjusted. Returned; referred to dis-50 cents a day increase allowed -teamsters, \$6; chauffeurs, \$7. Present status and terms of Adjusted 1 trict board for settlement. settlement. union agreement. to all employees. Pending.... Pending. Pending Pending.... Pending.... Adjusted. Adjusted. remote. Pending. ---do--nition. Dasis Wages; working condi-Nonunion musicians.... Asked increase and rec-Asked \$2 a week in-Discharge of union men. Asked 15 cents an hour Wage increase; 10 cents Asked increase on piece-10 per cent wage cut in Asked \$1 a day increase conditions; Open shop and recogni-Right of organization; Discrimination and dis-Union recognition and Working conditions.... Renewal of agreement... collective bargaining 40-hour week Cause of dispute. and 8-hour day. an hour asked. closed shop. Wage cut... nerease. ognition. increase. charges. Working Work. Theater employees .. Hat and cap makers. Ladies garment A. S. Kennedy, Cedar Rapids, Iowa ... Controversy Dance musicians .... Craft concerned. Clothing workers. Clothing makers. Employees (steel) Building trades. Upholsterers.... Teamsters..... Truck drivers. Shirt makers... Hat makers.... Taxi drivers... Miners American Steel & Wire Co., Allentown, | Controversy | Employees\_\_ Teamsters... Controversy Bakers.... Miners.... Controversy Keomer Furniture Manufacturing Co., Lockout ..... Threatened controversy. ....do.... Rothchild & Small, Arlington, N. J .... Strike..... Nature of Lehigh Valley Coal Co., Exeter, Pa. ... Strike. ....do do Cap and millinery workers, Philadel- | Strike .... ...do.... strike. Strike ..do... ...do... ...do -doop---Blue Bell Bakery Co., Yonkers, N. Y ... Yellow Cab Line, Springfield, Ill. Charlie Meyer Pants Shop, Belleville, Keith Railway Equipment Co., Ham-Woodward Colliery (Glen Alden Co.), motion-picture theaters, Springfield, Truck and ice drivers. Plymouth. Ill. Company or industry and location. Hall, Hartwell & Co., Troy, N. Y ..... Teamsters, Chicago, Ill. Hudson Shirt Co., Bayonne, N. J.... 150 garment shops, Boston, Mass. Building trades, Omaha, Nebr... Teamsters, Belleville, III. dwardsville, Pa mond. Ind

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160	(		425	104 80	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	35 40	15 10	18 10	6,000 2,000	742 4, 502
Feb. 1 160	(0)	33			£	4	60	21	25	15, 742
-			21 Feb. 26	Feb. 18	1 Feb.	Heb.	6 Mar	15 Feb.	27 Feb.	
Feb.	3	33	Feb. 21	0	(') Feb. 1	Jan. 31	Feb.	Jan.	Feb.	
	0p	and the state of	Y	Y	Lowed.  Pending Unclassified. 90 cents per hour allowed before commissioner's ar-	Adjusted. Company agreed to raise	Adjusted. 4-hour week and prevail- Feb. 6 Mar.	Adjusted. Contract providing for Jan. 15	Adjusted. Returned to district. Feb. 27 board for settlement.	
Wages and renewal of	Working conditions	(1) Renewal of contract of	Discharge of carpenter	Asked 30 per cent in-	(1) Renewal of agreement	Piecework begun at re-	Open shop; recognition;	Union contract and	open snop. Working conditions	
Bill posters	Molders	Bakers	Miners	Textile workers	Painters	Employees	Tailors	Employees.	Miners	
Strike	do	op	do	do	Controversy Painters.	Strike	do	do	do	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Bill posters, West Coast Strike Bill posters.	Molders, Montpelier and Hartford	Bakers, Homestead, Pa- Printers, Richmond, Ind	Glen Alden Coal Co., Duryea, Pa	Aronsohn Silk Mills, Bayonne, N. J	Textile workers, Collinsville, Ill	Night Comfort Garment Factory, Mc- Strike	Clark Tailoring Co., Cleveland, Ohlodo	Lincoln Square, Gem, Manhattan, and	Lehigh Valley Coal Co. collieries,dovarious places.	Total

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Adjusted Adjusted Agreement per American Feb. 9 Feb. 14 Federation of Musicians.

1 Not reported.

## IMMIGRATION.

# Statistics of Immigration for January, 1924.

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Other

China Japan India

Syria Turk

Other

Africa Austr Pacif Cana Cent Mexi

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Irish Itali Itali Japa Kor

Mag Mex Pac Poli Por Rus Rus Rus

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By W. W. Husband, Commissioner General of Immigration.

THE following tables show the total number of immigrant aliens admitted into the United States and emigrant aliens departed from the United States during January, 1924, and from July 1923, to January, 1924. The tabulations are presented according to the countries of last permanent or future permanent residence, races or peoples, occupations, and States of future permanent or last permanent residence. The last table (Table 6) shows the number of aliens admitted under the per cent limit act of May 19, 1921, from July 1, 1923, to March 5, 1924.

TABLE 1.—INWARD AND OUTWARD PASSENGER MOVEMENT, JULY, 1923, TO JANUARY, 1924.

			Arrivals.			Departures.			
Period.	Immigrant aliens ad-mitted.	Non- immi- grant aliens ad- mitted.	United States citizens arrived.	Aliens de- barred.	Total arrivals.	Emi- grant aliens.	Nonemi- grant aliens.	United States citizens.	Total depar- tures.
July	85, 542 88, 286 89, 431 88, 028 92, 782 55, 794	13, 039 13, 688 18, 221 15, 490 12, 611 12, 287	20, 637 33, 510 51, 894 27, 553 21, 942 17, 620	2, 899 2, 804 2, 331 3, 094 2, 933 2, 924	122, 117 138, 288 161, 877 134, 165 130, 268 88, 625	8, 041 6, 489 6, 073 7, 291 6, 925 9, 480	14, 213 12, 267 10, 245 13, 856 11, 607 13, 722	39, 898 27, 744 16, 025 18, 104 14, 901 16, 928	62, 152 46, 500 32, 343 39, 251 33, 433 40, 130
1924. January	33, 878	10, 476	15, 638	2, 145	62, 137	5, 723	8, 689	20, 817	35, 229
Total.	533, 741	95, 812	188, 794	19, 130	837, 477	50, 022	84, 599	154, 417	289, 038

TABLE 2.—LAST PERMANENT RESIDENCE OF IMMIGRANT ALIENS ADMITTED AND FUTURE PERMANENT RESIDENCE OF EMIGRANT ALIENS DEPARTED DURING JANUARY, 1924, AND FROM JULY, 1923, TO JANUARY, 1924, BY COUNTERES.

	Imm	igrant.	Emigrant.		
Country.	January, 1924.	July, 1923, to January, 1924.	January, 1924.	July, 1923, to January 1924.	
Albania	2	221	30	15	
Austria.	705	6, 821	5	12	
Belgium	63	1,768	28	33	
Bulgaria	3	481	23	15	
Czechoslovakia	174	13, 099	88	93	
Denmark	254	3, 604	78	34	
Esthonia	40	336		1	
Finland	20	3, 569	20	19	
France, including Corsica	208	5, 072	71	81	
Germany	6, 340	73, 323	48	59	
Great Britain, Ireland:	0,010	10,020	10		
England	138	23, 458	193	2.90	
Ireland	20	16, 861	29	8	
Scotland	27	33, 212	27	5	
Wales	5	1, 503	1		
reece.	81	4, 221	539	4,5	
***************************************	215	5, 231	27	3	
Jungary				15,5	
taly (including Sicily and Sardinia)	666	43, 143 1, 389	2, 517	10,0	
			5	2	
Lithuania	46 37	2, 231	18	2	
Netherlands		3, 584	43	5	
Norway	189	9, 982	79	1.6	
Poland.	259	27, 985		2,5	
Portugal (including Azores and Cape Verde Islands)	12	2, 533	99	2,0	
Rumania	101	10, 819	56	3	
Russia	178	12, 148	15		
pain (including Canary and Balearic Islands)	33	625	171	1,8	
weden	465	16, 681	43	4	
witzerland	39	3,578	17	2	
Turkey in Europe	19	1,401	15		

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TABLE 2.—LAST PERMANENT RESIDENCE OF IMMIGRANT ALIENS ADMITTED AND FUTURE PERMANENT RESIDENCE OF EMIGRANT ALIENS DEPARTED DURING JANUARY, 1924, AND FROM JULY, 1923, TO JANUARY, 1924, BY COUNTRIES—Concluded.

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Total lepartures.

62, 152 46, 500 32, 343 39, 251 33, 433 40, 130

35, 229 89, 038

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1923, uary,

	Imm	igrant.	Emigrant.	
Country.	January, 1924.	July, 1923, to January, 1924.	January, 1924.	July, 1923, to January, 1924.
YugoslaviaOther Europe	1, 050 4	5, 089 299	99 5	1, 226 21
Total Europe	11, 419	334, 247	4, 391	38, 463
Chinalapanlapanlapanladialadiasyria, Palestine, and Mesopotamiasyria, Palestine, and Mesopotamiasyria, Pasiasyria	389 352 6 60 25 12	5, 290 3, 068 126 2, 530 2, 692 224	346 155 14 18 3	2, 502 1, 504 117 310 148 46
Total Asia	844	13, 930	539	4, 627
Africa Australia, Tasmania, and New Zealand Pacific Islands (not specified) Canada and Newfoundland Central America. Mexico South America West Indies Other countries	13 22 1 15, 598 50 4, 920 594 396 21	792 532 37 119, 214 1, 150 46, 689 6, 299 10, 799 52	3 25 7 139 27 99 73 419	77 299 17 1, 489 347 1, 324 700 2, 677
Grand total	33, 878	533, 741	5, 723	50, 022

TABLE 3.—IMMIGRANT ALIENS ADMITTED TO AND EMIGRANT ALIENS DEPARTED FROM THE UNITED STATES DURING JANUARY, 1924, AND FROM JULY, 1923, TO JANUARY, 1924, BY RACES OR PEOPLES.

	Imm	igrant.	Emigrant.		
Race or people.	January, 1924.	July, 1923, to January, 1924.	January, 1924.	July, 1923, to January, 1924.	
African (black)	264	7, 425	109	847	
Armenian	77	2, 516	7	25	
Bohemian and Moravian (Czech)	79	6, 459	51	862	
Bulgarian, Serbian, and Montenegrin	321	2, 162	56	1, 218	
Chinese	345	3, 022	346	2, 447	
Croatian and Slovenian	615	3, 576	21	63	
Cuban	40	883	121	646	
Dalmatian, Bosnian, and Herzegovinian	26	251	5	121	
Dutch and Flemish	269	6, 454	56	609	
East Indian	7	92	12	114	
English .	5, 283	64, 037	327	4, 368	
Finnish	64	3, 415	23	231	
Franch	4, 379	29, 042	68	838	
FrenchGerman	7, 887	89, 949	67	859	
	96	4, 485	555	4, 570	
	1, 279		25	130	
Hebrewlrish		44, 631	53	973	
	1,711	33, 179	0.00		
Italian (north)	193	9, 782	234	1, 002	
Italian (south)	672	35, 279	2, 314	14, 633	
Japanese	346	2, 758	153	1,480	
Korean	5	45	1	18	
Lithuanian	39	1,847	6	261	
Magyar	249	6, 707	34	344	
Mexican	4, 794	45, 455	99	1, 285	
Pacific Islander	2	11			
Polish	302	18, 190	72	1,657	
rortuguese	39	3, 166	114	2, 669	
Rumanian	96	1,419	54	699	
Russian	213	8, 269	21	456	
Ruthenian (Russniak)	180	1,643	2	7	
Scandinavian (Norwegians, Danes, and Swedes)	1, 296	33, 741	192	1, 561	
Seotch	2,062	48, 688	65	793	
Slovak	117	5, 395	61	169	
Spanish.	134	2,471	235	2, 303	
Spanish American	94	1,709	40	533	
Syrian	45	1, 263	15	290	
Turkish	11	298	15	197	
AL CISII	112	2,079	2	54	
West Indian (except Cuban)	72	1, 283	43	441	
Other peoples	63	665	49	249	
Total.	33, 878	533, 741	5, 723	50, 022	
W. I.	20, 837	321, 102	4.964	37, 436	
MaleFemale			759	12, 586	
VAAACUU	13, 041	212, 639	199	12, 080	

TABLE 4.—IMMIGRANT ALIENS ADMITTED TO AND EMIGRANT ALIENS DEPARTED FROM THE UNITED STATES DURING JANUARY, 1924, AND FROM JULY, 1923, TO  $J_{AN}$ . UARY, 1924, BY STATES OR TERRITORIES.

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No

	Imm	igrant.	Emigrant.		
State.	January, 1924.	July, 1923, to January, 1924.	January, 1924.	July, 1923 to January 1924.	
Alabama	12	373	1	2	
Alaska	34	191	2	1	
Arizona	766	8, 276	29	23	
Arkansas	10	132	3	1	
California	3, 528	37, 956	390	3,75	
Colorado	66	1, 188	28	12	
Connecticut	472	10, 581	134	1,00	
Delaware	11	420		1	
District of Columbia	61	1, 239	20	19	
Florida	189	2,646	134	95	
Georgia	13	358	8	4	
Hawaii	182	1,366	37	27	
Idaho	68	756	12	7	
Illinois	1,958	39, 848	321	2, 58	
Indiana	243	4, 666	36	42	
Iowa	196	3, 344	30	16	
Kansas	88	1, 263	7	5	
Kentucky	30	483	8	1 2	
Louisiana	100	898	25	2	
Maine	1, 161	6, 987	19		
Maryland	148	2,710	11	1	
Massachusetts	3, 532	44, 634	390	4,5	
Michigan	3, 688	43, 722	179	1,6	
Minnesota	487	8, 547	42	4:	
Mississippi	23	437	3	3	
Missouri	234	3, 873	28	2	
Montana	141	1, 359	19	15	
Nebraska	123	2, 178	11	10	
Nevada	17	188	4		
New Hampshire	674	4, 337	8		
New Jersey	1,029	27, 598	194	1,9	
New Mexico	181	767	3		
New York	6, 045	135, 952	2,472	19,0	
North Carolina.	7	230	5		
North Dakota	74	1,435	7		
Ohio	907	21, 244	239	2,2	
Oklahoma	32	415	4	1	
Oregon	505	4, 346	23	2	
Pennsylvania	1, 439	42,681	444	4, 3	
Philippine Islands		1			
Porto Rico	. 14	156	7	1	
Rhode Island.	320	5,928	74	9.	
South Carolina	3	131	1		
South Dakota	55	840	3	1	
Tennessee	7	329	5	1	
Texas	2, 589	28, 262	38	8:	
Utah	47	932	32	11	
Vermont	280	1,983	6	1	
Virginia	131	1,610	8	1	
Virgin Islands		9		*********	
Washington	1,395	13, 353	92	9	
West Virginia	76	1,762	51	4	
Wisconsin	466	8, 345	55	4.	
Wyoming	21	476	21		
Total	33, 878	533, 741	5, 723	50, 02	

TABLE 5.—IMMIGRANT ALIENS ADMITTED TO AND EMIGRANT ALIENS DEPARTED FROM THE UNITED STATES DURING JANUARY, 1924, AND FROM JULY, 1923, TO JANUARY, 1924, BY OCCUPATIONS.

	Imm	igrant.	Emi	grant.
Occupation.	January, 1924.	July, 1923, to January, 1924.	January, 1924.	July, 1923, to January 1924.
Professional:				
Actors	93	738	10	8
Architects	31	335		1
Clergy	120	1, 417	16	23
Editors	9	36		
Electricians	199	3, 113	6	4
Engineers (professional)	171	3, 807	29	19
Lawyers	12	155	7	2
Literary and scientific persons	-24	563	9	5
Musicians	65	1, 151	3	4
Officials (Government)	51	357	12	9
Physicians	83	821	5	
Sculptors and artists	32	310	2	1
Teachers	144	2, 423	17	15
Other professional	217	2,946	25	2
Total	1, 251	18, 172	141	1, 2

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TABLE 5.—IMMIGRANT ALIENS ADMITTED TO AND EMIGRANT ALIENS DEPARTED FROM THE UNITED STATES DURING JANUARY, 1924, AND FROM JULY, 1923, TO JANUARY, 1924, BY OCCUPATIONS—Concluded.

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	Imm	igrant.	Emigrant.		
Occupation.	January, 1924.	July, 1923, to January, 1924.	January, 1924.	July, 1923, to January, 1924.	
Skilled:					
Bakers	157	3,056	16	119	
Barbers and hairdressers	115	2, 174	18	101	
Blacksmiths	157 16	2,815 243	8	40	
Bookbinders	2	32		1	
Butchers	144	2,415	10	56	
Cabinetmakers	12	394	2	28	
Carpenters and joiners	870	12,820	66	389	
Cigarette makers	.4	41		2	
Cigar makers	15	218	60	222	
Cigar packers.	1, 573	19, 236	63	612	
Dressmakers	136	3, 202	6	82	
Engineers (locomotive, marine, and stationary)	87	2, 921	8	53	
Furriers and fur workers	16	253	2	6	
Gardeners	75	997	9	67	
Hat and cap makers	9	269		2	
Iron and steel workers	201	6, 783	8	66	
Jewelers	27 249	359	3	19	
Locksmiths Machinists	332	3, 576 5, 322	11	153	
Mariners	692	6, 696	29	211	
Masons.	255	4, 579	25	94	
Mechanics (not specified)	453	6, 735	16	129	
Metal workers (other than iron, steel, and tin)	72	967	4	13	
Millers	21	477	1	72	
Milliners	15	557		2	
Miners	236 206	6, 153 3, 078	61	509	
Painters and glaziers	12	294	1.4	i	
Photographers.	18	375	2	8	
Plasterers	43	513	6	21	
Plumbers	101	1,626	3	44	
Printers	113	1, 353	4	28	
Saddlers and harnessmakers	22	289			
Seamstresses	81	1,986	18	23 206	
Shoemakers	110 65	4, 167 746	6	13	
Stonecutters	22	450		14	
Tailors	235	5, 965	25	204	
Tanners and curriers	2	166		4	
Textile workers (not specified)	11	399		1	
Tinners	32	617	2	5	
Tobacco workers		25			
Upholsterers Watch and clock makers	18 24	305 477	2 3	6	
Weavers and spinners.	82	2, 475	16	300	
Wheelwrights	12	122			
Woodworkers (not specified)	12	419	1	1	
Other skilled	287	4, 501	11	92	
Total.	7, 451	123, 658	542	4, 105	
Miscellaneous:					
Agents	107	1,506	16	83	
Bankers	13	130	4	63	
Draymen, hackmen, and teamsters	86	1, 426	29	51	
Farm laborers	1, 178	23, 046	23	188	
Farmers	1, 275	15, 400	117	1, 017	
Fishermen.	324	2, 118 134	11	50 20	
Hotel keepers	4,943	74, 460	3, 367	24, 847	
Manufacturers	17	431	4	45	
Merchants and dealers	628	8, 853	154	1, 577	
Servants	1,942	44, 825	213	1,523	
Other miscellaneous	1, 176	20, 327	207	2, 623	
Total	11, 694	192, 656	4, 146	32, 087	
No occupation (including women and children)	13, 482	199, 255	894	12, 577	
Grand total	33, 878	533, 741	5, 723	50, 022	

TABLE 6.—STATUS OF THE IMMIGRATION OF ALIENS INTO THE UNITED STATES UNDER THE PER CENT LIMIT ACT OF MAY 19, 1921, AS EXTENDED BY PUBLIC RESOLUTION NO. 55, SIXTY-SEVENTH CONGRESS, APPROVED MAY 11, 1922, JULY 1, 1923, TO MARCH 5, 1924.

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Country or region of birth,	Maximum monthly quota.	Admitted Mar. 1-5, 1924.	Annual quota.	Admitted July 1 to Mar. 5.	Balance for year
Albania	58		288	288	(2)
Armenia (Russian)	46	2	230	151	
Austria	1, 468	10	7, 342	7, 242	
Belgium	313	10	1, 563	1, 563	(2)
Bulgaria	61		302	302	(2)
Czechoslovakia	2, 871		14, 357	14, 357	(2)
Danzig.	60		301	301	(3)
Denmark	1, 124	20	5, 619	4, 540	
Esthonia	270	20	1, 348	572	1,0
Finland	784	1	3, 921		70 70
	14			3, 921	(2)
France		94	71	59	
France	1, 146	34	5, 729	4, 658	1,0
Germany	13, 521		67, 607	67, 607	(2)
Freat Britain, Ireland	15, 468		77, 342	77, 342	(2)
ireece	613		3, 063	3, 063	(3)
lungary	1, 149	11	5, 747	5, 438	
celand	15		75	22	
taly	8, 411		42, 057	42, 057	(2)
Latvia	308		1,540	1, 540	(2)
Lithuania	526		2, 629	2, 629	(2)
Luxemburg	19		92	92	(2)
Netherlands	721		3, 607	3, 607	(2)
Norway	2, 440	53	12, 202	11, 013	1,
Poland	6, 195		30, 977	30, 977	(2)
Portugal	493		2, 465	2, 465	(2)
Rumania	1, 484		7, 419	7, 419	(2)
Russia	4, 881		24, 405	24, 405	(2)
pain	182		912	912	(2)
Sweden	4, 008	8	20, 042	19, 272	(*)
witzerland	750		3, 752	3, 752	(2)
'ugoslavia	1, 285	18	6, 426	6, 340	7.7
Other Europe	1, 285	10	86	86	(2)
Palestine	12		57	86 57	(2)
	177		882		(2)
2		07		882	(2)
Turkey	531	27	2, 654	2, 639	(1)
Other Asia	19		92	92	(2)
Africa	21		104	104	(2)
Egypt	4		18	18	(2)
Atlantic Islands	24		121	113	
Australia	56		279	279	(2)
New Zealand and Pacific Islands	16		80	80	(2)
Total	71, 561	183	357, 803	352, 256	. 5,1

<sup>&</sup>lt;sup>1</sup> After all pending cases for which quotas have been granted and admissions charged to the quota during the current fiscal year have been deducted from the annual quota.

<sup>2</sup> Annual quota exhausted.

## Emigration from Denmark, 1923.1

IN 1923, 7,601 persons recorded as having their "last permanent residence" in Denmark, emigrated overseas from that country, being 3,500 more than in 1922 and 2,300 more than in 1921. This approaches the normal pre-war figure of between 8,000 and 9,000. Of the emigrants, 5,813, or over three-fourths, came to the United States, 1,081 went to Canada, 651 to Central and South America, 44 to Australia, 10 to Africa, and 2 to Asia. Emigration to the United States doubled from 1922 to 1923, while emigration to Canada in 1922 was triple that of 1923. The number of emigrants to other places remained practically unchanged or else showed a decrease.

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<sup>1</sup> Statistiske Departement. Statistiske Efterretninger, Feb. 6, 1924, p. 29.

### FACTORY INSPECTION.

#### Massachusetts.1

THE industrial safety work of the Massachusetts Department of Labor and Industries included 4,646 inspections and visits and 1,522 orders in February, 1924. In the same period 30 cases were prosecuted. Verdicts of "guilty" were secured in 19 instances.

#### Pennsylvania.

THE following report on some of the recent activities of the bureau of inspection of the Pennsylvania Department of Labor and Industries is taken from the February, 1924, issue of Labor and Industry, the official organ of that department. The figures do not include boiler and elevator inspection.

	December, 1923.	Since Jan. 1, 1923.
Inspections	. 3, 443	80, 927
Special inspections	2, 587	23, 287
Visits	_ 1, 240	16, 725
Violations	717	10, 664
Prosecutions		328
Orders		7, 040
Compliances	736	7,000

## Italy.2

THE Italian Ministry of National Economy has published certain statistical information on the activities of the factory inspection service during 1922. The following table shows the number of establishments inspected and the number of workers employed in them:

ESTABLISHMENTS AND WORKERS INSPECTED, BY INDUSTRY GROUPS, 1922.

Industry group.	Establish- ments.	Workers.
Agricultural products, hunting, fishing Metal industry Minerals (excluding metals) Building and construction Textile industry Chemical industry Public services Miscellaneous	950 595 121 411 513 165 201 44	22, 523 19, 056 4, 655 16, 523 51, 531 7, 589 4, 182
Total	3, 000	126, 730

Of the 126,730 workers employed in the establishments inspected, 70,242 were male adults and 27,381 were female adults, 2,875 were boys and 26,232 were female minors.

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Data are from typewritten report from Massachusetts Department of Labor and Industries.
 Italy. Ministero del l'Economia Nazionale. Direzione Generale del Lavoro e della Previdenza Sociale.
 Bollettino del Lavoro e della Previdenza sociale, Rome, October, 1923. Pt. 1, pp. 317-320.

The following table shows the number of establishments and number of workers inspected, classified according to the labor laws under which the inspection was made:

INSPECTIONS CLASSIFIED ACCORDING TO THE LABOR LAWS UNDER WHICH THEY WERE MADE, 1922.

Subject of legislation.	Establish- ments.	Workers.
Accidents Protection of women and children	2,689 1,714	122, 4 100, 3
Maternity insurance	1, 252 2, 988 74	80, ( 126,
Steam boilers	80	19

Of the 3,000 establishments inspected during 1922, 2,029 were inspected once only, while 971 were inspected twice or oftener. The number of special inspections in connection with infringements of labor laws and regulations was 2,904. The number of cases of infringement of labor laws reported in the course of inspections was 579, classified as follows: Accident insurance 218, employment of women and children 101, maternity insurance 110, weekly rest 7, night work in bakeries 24, steam boilers 24, miscellaneous laws 95.

The factory inspection service granted 72 exemptions under the weekly rest act; night work was authorized in 301 cases (bakeries, furnace repairs, electric power distribution) involving permits for

direct 1922. The following table shows the mention of

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a total of 2,733 nights.

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## WHAT STATE LABOR BUREAUS ARE DOING.

#### Massachusetts.

THE Massachusetts Department of Labor and Industries is now collecting at stated intervals separate data on wages for men and women, according to information received by this bureau. January, 1924, is the first month for which this information has been secured. Reports from 349 establishments showed average weekly earnings for that month of \$28.53 for males and of \$17 for females. A table giving the average weekly earnings of these two classes of employees in the different industries in the State for January, 1924, is published on page 137 of this issue of the Monthly Labor Review. The department is revising the rules relating to the painting trades. A committee has been organized to investigate the situation and submit recommendations. Dr. Wade Wright of the Harvard Medical School has been asked to be chairman of this committee. The minimum wage commission has recently finished the field

work of an investigation of women's wages in the jewelry industry in Massachusetts.

### Pennsylvania.1

IN DECEMBER, 1923, and January, 1924, the Pennsylvania Department of Labor and Industry held six safety conferences with industrial executives, safety experts, and other persons interested in the subject under discussion. These meetings were held in Philadelphia, Pittsburgh, Reading, Scranton, Eric, and Johnstown.

The secretary of labor and industry emphasized the fact that the only way to reduce accidents in the State was to have each establishment completely organized as a safety center for that particular locality. A state-wide safety conference is scheduled to be held at Harrisburg in February or March.

Pennsylvania. Department of Labor and Industry. Labor and Industry, Harrisburg, February, 1924.

## CURRENT NOTES OF INTEREST TO LABOR.

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### International Labor Conference, 1924.1

THE following are the four subjects on the adopted agenda for the sixth session of the International Labor Conference to open in Geneva, June 16, 1924:

(1) Development of facilities for the utilization of workers' leisure.

(2) Equality of treatment for national and foreign workers as regards workmen's compensation for accidents.

(3) Weekly suspension of work for 24 hours in glass manufacturing processes

where tank furnaces are used.

(4) Night work in bakeries.

Among the matters relating to the general work of the International Labor Organization that will also have to be taken up by the conference are:

Procedure for the amendment of conventions.

The report of the advisory committee on anthrax.

The report of the director on the activity of the International Labor Office in 1923 and on the measures taken by the different States to give effect to decisions of previous sessions of the conference.

A report on unemployment.

A report on the standard of living in countries with a severely depreciated currency.

# Proposed International Conference on Legal Aid Work.

THE proposed international conference on legal aid to be held, presumably, in Geneva in 1925 has been called to the attention of this bureau by Reginald Heber Smith, of Boston, who has been making a special study of the subject of legal aid. Pursuant to the action of the fourth assembly of the League of Nations in 1923 in placing on the agenda of the fifth assembly the question of international arrangements for civil justice for the poor, plans are being made for this conference and are being carried forward by the director of the legal section of the secretariat of the league. It has been recommended that a small committee of experts consisting of representatives from the United States, England, France, Norway, Denmark, Italy, and perhaps other countries meet at The Hague in July or August, 1924, to arrange the preliminary work for the conference. The main purpose of the conference is to provide for international cooperation in handling legal aid cases of the poor.

A national association of legal aid societies has been organized in this country and is located at 133 South Twelfth Street, Philadelphia, Pa. In the larger cities questions regarding legal aid can be referred to local legal aid bureaus or societies and in the smaller cities to mem-

bers of the American Bar Association.

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<sup>&</sup>lt;sup>1</sup> International Labor Office. Industrial and Labor Information, Geneva, Jan, 28, 1924.

The problem of social justice is common to all industrial countries and different methods of dealing with this problem have been adopted by various countries. It is believed that the proposed international conference will result in more intelligent procedure and in a larger fund of reliable information in connection with this important subject, and that the benefits to those whom it is intended to protect will be pronounced.

#### Industrial Association in Chile.2

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THE Industrial Association (Asociación del Trabajo) in Chile is the most important employers' organization in that country, having a membership of 1,100 persons, employing a total of 110,000 workers. To improve conditions of the workers, the association has established labor offices, employment agencies and exchanges, clinics, hospitals, agricultural hygiene stations, vaccination centers, and a system of accident insurance. A dental clinic, a workers' club, a savings bank, and an office for legal advice are other achievements of this society. Its publication is called Horizontes Nuevos.

### Creation of Labor University in Chile.3

A LABOR university costing 300,000 pesos (\$109,500, par) is to be founded in Santiago, Chile, during 1924 by the municipal government through the efforts of the mayor of the city. The aims of the university will be to educate and train working men and

women in trades most suitable to their natural abilities.

There will be separate sections for men and women. The university will consist of two departments, one devoted to vocational guidance and the other to the teaching of definite trades. In the vocational guidance department the students will be able to obtain a good general education as well as instruction in modern industrial methods, while in the trade department they will receive a course of specialized industrial and technical instruction in the trade they have chosen. In the trade schools the pupils will work under conditions identical with those in well-regulated workshops and will be paid for their work. Instruction in motor driving, in the wood and metal trades, in printing, and in electricity will be included in this department besides training in other well-known trades. The course in the various trade schools will be three years.

### Income Tax Rates of German Workers.

THE following report was recently received from the Bureau of Foreign and Domestic Commerce:

Recent changes in the German taxation policy will affect the workers as well as other groups of the population. The most recent taxation regulation, effective January 1, 1924, radically changes the present system of taxing the workers.

El Mercurio, Santiago, Chile, Sept. 3, 1923, p. 21.
 El Mercurio, Santiago, Chile, Dec. 15, 1923, p. 7.

Heretofore 10 per cent of total wages minus certain sums (Lohnabzüge), fixed according to the size of the worker's family, have been deducted from the pay envelope and turned over by the employer to the State. According to the new regulation labor's taxes will no longer be levied on total wages. The new system fixes a definite sum, mentioned below, which is to be exempt from taxation, regardless of the size of the worker's family or of the amount of total wages. This sum has been fixed at 50 gold marks [\$11.91, par] monthly, or, if as is usually the case, wages are paid weekly, at 12 gold marks [\$2.86, par] weekly (and 2 gold marks [47.6 cents, par] daily).

marks [47.6 cents, par] daily).

After this sum has been deducted from the total wages 10 per cent is levied as taxes from the unmarried worker, 9 per cent is levied from the married worker, 8 per cent from the married worker with one child, 7 per cent from the married worker with two children, and 1 per cent less for each additional child

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8 per cent from the unmarried worker, 9 per cent is levied from the married worker, 8 per cent from the married worker with one child, 7 per cent from the married worker with two children, and 1 per cent less for each additional child.

The working out of this system of tax levy is illustrated by the following examples: An unmarried worker, earning 30 gold marks [\$7.14, par] weekly, will be taxed 10 per cent on 30-12=18 gold marks [\$4.28, par]; viz, his taxes will amount to 1.80 gold marks [43 cents, par] weekly. A married worker with two children who is earning the same wages is taxed 7 per cent; viz, 1.26 gold marks [30 cents, par] weekly. In order to now insure a prompt delivery of the workers' taxes to the State, the new regulation stipulates that employers must turn over their workers' taxes every ten days; at the latest five days after the 10-day period has elapsed.

### Standardization of Coal-Mining Requisites in England.

ACCORDING to the Board of Trade Journal (London) for January 31, 1924, the British Engineering Standards Association has undertaken the standardization of colliery requisites. A central committee is being formed, and local committees are being set up in the various centers. At first the committees are expected to concentrate on a limited number of the more important questions, "such as pit tubes, rails, and rope sheaves, of which there are far too great a variety of types in existence." It is pointed out that this movement will tend to diminish waste both of time and of material, and that such savings have a special importance in view of the fact that under the agreement of 1921, "the rate of percentage increase in the miners' wages depends upon the difference in the cost of production and the selling price of coal."

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### PUBLICATIONS RELATING TO LABOR.

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#### Official-United States.

HAWAH (HONOLULU).—Industrial Accident Board. Eighth annual report for the 12 months ending June 30, 1923. [Honolulu, 1923.] 24 pp.

This report includes a brief statistical review and summary covering the administration and operation of the workmen's compensation law of the Territory of Hawaii from July 1, 1915, the date of enactment. A summary of the annual report is given on pages 175 and 176 of this issue of the Monthly Labor Review.

- Massachusetts.—Department of Labor and Industries. Division of Industrial Safety. Lighting code for factories, workshops, manufacturing, mechanical, and mercantile establishments, effective January 1, 1924. [Boston?] 1923. 6 pp. Industrial bulletin No. 18.
- New York.—Department of Labor. Bureau of Women in Industry. The trend of child labor in New York State, 1910-1922. Albany, 1923. 18 pp. Special bulletin No. 122.

A summary of the findings of this bulletin appears on pages 102 and 103 of this issue of the Monthly Labor Review.

— Medical Division. Injuries to the head and their sequelx, by Dr. Raphael Lewy. [Albany?] 1923. 44 pp. Bulletin No. 3.

This bulletin contains a discussion of different diseases developing as a result of injury to the skull, supplemented by a number of case histories of claimants for workmen's compensation.

NORTH DAKOTA.—Workmen's Compensation Bureau. Fourth annual report for the fiscal year ending June 30, 1923. Fargo [1923?]. 24 pp.

A summary of this report will be found on pages 176 and 177 of this issue of the Monthly Labor Review.

--- The North Dakota workmen's compensation act explained. Safety. Bismarck, 1923. 32 pp.

This pamphlet outlines the principles underlying the North Dakota workmen's compensation law, its administration and results, the purpose of the publication being to familiarize the citizens of the State with the workings of the law. A section is devoted to a discussion of the necessity for greater attention to "safety" on the part of the general public.

- Washington.—Department of Labor and Industries. Safety standards, effective January 1, 1924. Olympia, 1924. 96 pp.
- United States.—Civil Service Commission. Civil service act and rules, retirement and classification acts, statutes, Executive orders and regulations, with notes and legal decisions, amended to September 1, 1923. Washington, 1923. iii, 154 pp.
- Congress. House of Representatives. Committee on Immigration and Naturalization. Restriction of immigration. Hearings on H. R. 5, H. R. 101, and H. R. 561, December 26, 27, and 31, 1923, January 2-8, 10, and 19, 1924. Washington, 1924. 914 pp. 68th Cong., 1st sess. Serial 1-A.

Among the subjects discussed in this volume are the operation of the quota law, selective immigration, intelligence tests for immigrants, finger-print requirement for immigrants, alien seamen, farm labor, contract labor, unemployment, oriental students, illegal entry of Chinese, colonization and assimilation of immigrants, and certain communistic activities.

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UNITED STATES.—Department of the Interior. Bureau of Mines. Accidents at metallurgical works in the United States during the calendar year 1922, by William W. Adams. Washington, 1923. iii, 31 pp. Technical paper 350.

A summary of this report appears on pages 144 and 145 of this issue of the Monthly Labor Review.

year 1922, by William W. Adams. Washington, 1924. v, 72 pp. Technical paper 354.

A summary of this report is given on pages 142 and 143 of this issue of the Monthly Labor Review.

Department of Labor. Bureau of Immigration. Immigration laws and rules of February 1, 1924. Washington, 1924. 168 pp.

This publication contains not only the texts of the immigration laws but an analysis of these statutes under three heads: (a) Classes excluded; (b) administrative provisions; and (c) penal provisions. A detailed index of rules and regulations adds to the value of the compilation.

Bureau of Labor Statistics. Industrial relations in the West Coast lumber industry, by Cloice R. Howd. Washington, 1924. vi, 120 pp. Bulletin No. 349. Miscellaneous series.

A brief digest of this report is given on pages 60 and 61 of this issue of the Monthly Labor Review.

—— Children's Bureau. Child labor and the work of mothers on Norfolk truck farms. Washington, 1924. iv, 27 pp. Illus. Bureau publication No. 130.

A summary of this report is given on pages 103 and 104 of this issue of the Monthly Labor Review.

by Emma O. Lundberg. Washington, 1924. v, 156 pp. Bureau publication No. 131.

An introductory statement defining the child-welfare commission movement and describing its general methods and aims is followed by a summary of the organization and plans of the commissions in the 29 States in which separate bodies of this type have been formed. The report contains also an account of the special legislative committees in Alabama, Colorado, and Illinois, a list of State commissions, compilations and summaries of State laws concerning children in need of special care, and various reports, bibliographies, and recommendations dealing with the subject.

low. Washington, 1924. 8 pp. Bulletin No. 38.

A paper read before the National Conference of Social Work, Washington, D. C., May 21, 1923, emphasizing the need for a body of definite facts regarding the effect of the industrial employment of married women upon their families, themselves, and society, as a basis for any legislation intended to regulate such employment.

# Official-Foreign Countries.

AUSTRALIA (VICTORIA).—Government statist. Forty-fifth annual report on friendly societies for the year 1922. Melbourne, 1923. xvi, 30 pp.

This report for 1922 shows 57 friendly societies, with 1,467 branches and a membership of 146,688. The total annual income in 1922 was £790,788 (\$3,848,370, par). Full details are given as to sources of income, annual contributions, expenses of management, value of property, and the like.

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depart unemp Canada (Ontario).—Board of Health. Division of Industrial Hygiene. Lead poisoning (a compilation of present knowledge), by R. M. Hutton. Toronto,

1923, ix, 304 pp.

Since lead poisoning is the most important industrial poisoning, being a hazard in approximately 150 different trades, and as there is a large amount of scientific material available as to its symptoms, treatment, and methods of prevention, the effort has been made in this book to bring together in small compass the most important of this information. The material used has been taken from standard works on lead poisoning, articles in scientific and industrial journals, and regular and special reports of government departments in various countries. The first part takes up the pathology and symptomatology of lead poisoning, laboratory and clinical tests for lead, prevention of lead poisoning, and treatment. A list is given of the lead trades and there is a detailed description of dangerous trades and processes with special preventive measures. The second part gives the text of laws and regulations enacted in the principal industrial countries and the recommendations or conventions adopted by the International Labor Organization of the League of Nations. There is a comprehensive classified bibliography.

Cuba.—Secretaría de Hacienda. Sección de Estadística. Comercio exterior,

años naturales 1921 y 1922. Havana, 1923. xviii, 284 pp.

Statistics of foreign commerce of Cuba, including immigration statistics, for the years 1921 and 1922. During the year 1921, 58,948 immigrants arrived, of whom 49,819 were men and 9,129 women. In 1922 there were 25,993 immigrants, of whom 19,468 were men and 6,525 women. Since 1920, when 174,221 immigrants entered the country, there has been a rapid decrease in immigration to Cuba. The nationalities having the largest representation were Spaniards, Haitians, and Jamaicans.

FINLAND.—[Handels- och Industri Ministeriet. Handels- och Industristyrelsens Statistiske Byra.] Industristatistik 39, år 1922. Helsingfors, 1923. iv, 81 pp. Finlands officiella statistik XVIII A.

Contains industrial statistics of Finland for the year 1922, including wages

and production costs.

- [Socialministeriet.] Statistiska Centralbyrån. Statistisk årsbok för Finland,

1923. Helsingfors, 1924. xxi, 290 pp.

Statistical yearbook for Finland for 1923. Some of the statistics of interest to labor in the yearbook are statistics on accident insurance, wages, industrial accidents, labor disputes, General Federation of Trade-Unions in Finland, Central Association of Employers in Finland, cost of living, and prices.

— [Sosialiministeriö.] Tutkimus metsä- ja uittotyöntekijäin oloista keväällä 1921. Helsingfors, 1923. 57 pp. Illus. Suomen virallinen tilasto XXXII: Sosialisia erikoistutkimuksia IV.

This study by the Ministry of Social Affairs deals with working conditions in the Finnish lumber industry.

— — Tütkimus suomen maataloustyöväen oloista palkkausvuonna 1919–1920. Helsingfors, 1923. 122 pp. Illus. Map. Suomen virallinen tilasto XXXII: Sosialisia erikoistutkimuksia III.

A study of the conditions of agricultural labor in Finland in 1919 and 1920, covering the length of the working-day at different periods in the year, the average wages paid in the different communes, and housing conditions.

France (Department of the Seine).—Office Départemental du Placement et de la Statistique du Travail. Rapport relatif au fonctionnement de l'office départemental du placement et de la statistique du travail et à l'organisation des secours de chômage pendant l'année 1922. Paris, 1923. 208 pp.

A report to the General Council of the Seine in regard to the operation of the departmental office of employment and labor statistics and the organization of unemployment relief in the department of the Seine in the year 1922.

GERMANY. - [Reichswirtschaftsministerium.] Statistisches Reichsamt. Statis. Jahrbuch für das deutsche Reich, 1923. Berlin, 1923. [Various paging.

The contents of this forty-third issue of the official German Statistical Year. book are of the same nature as those of preceding issues. The data relating to money values have, in most instances, lost all significance owing to the depreciation of German currency. Of special interest to labor are the data relating to labor disputes, production, housing, factory inspection, prices, cost of living wages and salaries, social insurance, cooperative societies, the labor market. employers' and workers' organizations, and collective agreements.

GREAT BRITAIN.—Home Office. Statistics of compensation and of proceedings under the workmen's compensation act, 1906, and the employers' liability act, 1880, during the year 1922. London, 1923. 29 pp. Cmd. 2007.

A review of this report is given on pages 177 to 179 of this issue of the Monthly LABOR REVIEW.

- Imperial Economic Conference, 1923. Record of proceedings and documents. London, 1924. 620 pp. Cmd. 2009.

Summary of conclusions. London, 1923. 20 pp. Cmd. 1990.

The record gives the important speeches and discussions of the conference, which lasted from October 2, to November 9, 1923, while the summary gives merely the conclusions reached. The conference dealt largely with tariff preference, imperial communications, commercial facilities and statistics, and the like. Coordination of scientific and industrial research within the Empire was advocated, as was also the reciprocal enforcement of judgments, including arbitration awards, and imperial cooperation with reference to patents, designs, and trademarks. The action taken in regard to uniformity of practice concerning work men's compensation is given on page 183 of this issue of the Monthly Labor

Industrial Fatigue Research Board. Two studies on rest pauses in industry. London, 1924. iv, 34 pp. Report No. 25.

This study of rest pauses in occupations involving light repetitive work shows the effect of rest intervals on output. It was impossible to determine the absolute effect of the rest pauses as their introduction was usually accompanied by other important changes in the conditions of work. A study of their application in the actual occupations and a series of laboratory experiments both seemed to show, however, that the introduction of systematic rest pauses was almost always followed by a slight, but genuine, improvement in output. It was found that the effect upon output is not immediate, that it takes several months for the effect of the rest pause to reach its full extent.

Ministry of Agriculture and Fisheries. Committee on Distribution and Prices of Agricultural Produce. Final report. London, 1924. 42 pp. Cmd. 2008.

The committee was appointed in December, 1922, to consider the methods and cost of distributing and selling agricultural produce in Great Britain, and to see whether such costs could be reduced. They report that agricultural prices have fallen disproportionately to the general cost of living, and that both the farmer and the farm laborer are suffering therefrom. Also, they find that the spread between producers' and consumers' prices is unjustifiably wide.

The various agencies engaged in the handling and transport of produce from the farm to the home have been able to pass on their labor and other costs to the consumer and in the absence of effective public opinion, through lack of accurate information, they have had no special incentive to effect reductions, and no very special pressure has been put upon them to do so. Consequently, by maintaining comparatively high prices, they have to some extent limited the quantity of goods which the consumers could obtain with their purchasing power, and hence the quantity which the producers could sell and which they could continue producing. This can not be regarded as a service to the nation as a whole, and it has been a very definite disservice to the agricultural industry.

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As to remedies for this situation, the committee is rather vague. On the producers' side the development of a marketing sense, the formation of marketing organizations, and the grading and standardization of products are recommended. Distributors are urged to adopt ideals of constructive public service, and "to work steadily forward in the direction of devising less expensive methods and of adapting their trading policies to the fundamental requirements of economical distribution." Railways, it is suggested, might bring their rates into some relation to the wholesale prices of separate commodities, instead of adopting a uniform rate for all agricultural produce. Municipal retail markets might have some effect, and the buyer could help the movement along by "shopping around" and not requiring delivery service. The development of large wholesale trading units might do much toward bringing down costs, and enforced publicity as to their capital, assets, and returns might prevent them from using the monopoly power their size would give them. Cooperation among farmers, especially in marketing, is held desirable, but the committee admits that there are many difficulties in the way of establishing successful cooperative bodies of this kind. The advancing of public credit for the use of such societies, under strict safeguards, is recommended. Finally, it is strongly urged that the Government should "interest itself in the efficiency with which the farmers' crops are marketed and distributed, in the costs which these processes entail, and in the acquisition and dissemination of accurate information." In other words, they recommend that the English Government should undertake some of the services rendered by our Department of Agriculture, agricultural colleges, and the like.

India.—Department of Mines. Report for the year ending December 31, 1922. Calcutta, 1923. v, 126 pp.

Contains among other data statistics showing that for the year 1922 there were 243 fatalities in the mines of British India, which was a death rate of 1.06 per 1,000 persons employed. Falls of roof and sides were the commonest causes of fatal accidents, accounting for 122 deaths. Of those killed, 25 were women.

International Labor Office.—Industrial hygiene and safety and the International Labor Organization. Geneva, 1923. 60 pp. Studies and reports, series F (industrial hygiene), No. 9.

This is a collection of papers dealing in a general way with the problems of hygiene and safety and the work of the International Labor Office in endeavoring to formulate international standards for the prevention of industrial diseases and accidents. The papers were read at a conference held in London in June, 1923, by the League of Nations Union of Great Britain.

Netherlands.—[Ministerie van Binnenlandsche Zaken en Landbouw.] Centraal Bureau voor de Statistiek. Werkstakingen en uitsluitingen gedurende het jaar 1922. The Hague, 1923. 28 pp. Statistiek van Nederland No. 374.

A report of the Central Statistical Office of the Ministry of the Interior and of Agriculture on strikes and lockouts in the Netherlands during the year 1922. A brief digest of the report is given on pages 209 and 210 of this issue of the Monthly Labor Review.

Norway.—[Departementet for Sociale Saker.] Statistiske Centralbyrå. Industristatistikk for året 1921. (Opgaver over ulykkesforsikringspliktige bedrifter og arbeidere.) Christiania, 1923. 25\*, 20 pp. Norges offisielle statistikk, VII, 91. Industrial statistics for Norway for the year 1921. Contains reports on establishments and workers subject to the accident insurance law and industrial development during the period 1897-1921.

- (Christiania).—Statistiske Kontor. Statistisk aarbok, 1923. Christiania, 1924. xiii, 222 pp.

Statistical yearbook for the city of Christiania for 1923. Some of the statistics of interest to labor are on housing and housing conditions, prices, wages, strikes and lockouts, etc.

Spain.—Consejo Superior de Emigración. Resumen de la migración española en 1921. Madrid, 1923. 29 pp. Charts. Bulletin No. 123.

This report presents a résumé of Spanish emigration and immigration during the year 1921, including statistical tables and charts. During the year 1921, 62,479 persons emigrated and 76,439 immigrated. Of those emigrating, 35,606 left for Argentina, 19,427 for Cuba, 2,068 for Mexico, 598 for the United States; the remainder went to other Central and South American countries. Of those immigrating, 50,238 came from Cuba, 13,514 from Argentina, 9,245 from the United States, 626 from Mexico, and the remainder from other Central and South American countries.

Sweden.—[Socialdepartementet.] Socialstyrelsen. Levnadskostnaderna på landsbygden i sverige vid år 1920. Stockholm, 1923. 143\*, 71 pp. Sveriges officiella statistik. Socialstatistik.

In this report the Labor Bureau (Socialstyrelsen) publishes the results of a cost-of-living investigation among the less well-to-do in the rural districts in Sweden covering the year 1920.

### Unofficial.

Brown, Nelson Courtlandt. The American lumber industry. New York, John Wiley & Sons (Inc.), 1923. xviii, 279 pp.

The most important question in the lumber industry at the present time is that of forest conservation and the future source of raw material. This question is also of great and increasing importance to the economic life and welfare of the American people. The entire history of the industry, its methods and processes, distribution and merchandising, and consumption, and the various associations and agencies concerned in the production of lumber and the conservation of our forest reserves are treated of in this work, especial stress being laid on the phases of the industry on which there is relatively little published material available. The book is planned "to serve as a textbook in forest schools; as a practical aid for those engaged in the lumber industry; and as a source of reference for the general public interested in national phases of this industry, particularly its economics, statistics, and merchandising methods, and the part it plays in our national welfare."

Campbell, Persia Crawford. Chinese coolie emigration to countries within the British Empire. London, P. S. King & Son (Ltd.), 1923. xxiii, 240 pp.

Two parts of this volume deal respectively with the "credit-ticket" system of Chinese emigration and Chinese "contract emigration." Under the first head the coolie traffic in British Malakka and Chinese emigration to Canada, Australia, and New Zealand are discussed. The subjects of the chapters in part 2 are: Foreign competition for Chinese labor, 1845–1874; The Transvaal experiment, 1904–1909; and The present system in the South Pacific Islands.

COLUMBIA UNIVERSITY. Business fluctuations and the American labor movement, 1915-1922, by V. W. Lanfear. New York, Longmans, Green & Co., agents, 1924. 132 pp. Studies in history, economics, and public law, Vol. CX, No. 2.

This is an analysis of the various phases of the business cycle, such as wages, cost of living, unemployment, labor mobility, and absenteeism, in relation to the development of the labor movement, the attitude of the American Federation of Labor and the Amalgamated Clothing Workers of America being taken as typical of the aims and desires of organized labor.

FAUVET, M. P. Les allocations familiales et les caisses de compensation. Nancy, Imprimeries Réunies, 1922. 7 pp.

An address in favor of the extension of family allowances and the affiliation of the members of the industrial associations of France with compensation funds for the payment of such allowances.

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Guesdon, Victor. Le mouvement de création et d'extension des caisses d'allocations familiales. Paris, Éditions de la Vie Universitaire, 1922. 280 pp.

The principal subjects treated in this volume are: Depopulation and State intervention, wages and the cost of living, history of compensation funds for family allowances, the results secured from the operation of such funds, their future, and the question of making them compulsory. Appendixes contain valuable information in connection with matters under discussion.

Institute for Government Research. The development of national administrative organization in the United States, by Lloyd Milton Short. Baltimore, Johns Hopkins Press, 1923. xviii, 514 pp. Studies in administration.

The rapid development and extension of Government services, particularly during the past two decades, prompted this study. An account of the administrative organization of the Government as a whole in its historical development is given, divided into two periods—from 1775 to 1860 and from 1860 to the present time. The work contains a very complete account of the organization and functions of the different departments, of the administrative war agencies established during the World War, and of recent administrative reorganization.

Jensen, Adolph. Méthodes permettant de réaliser une économie de travail dans la statistique. Copenhagen, Bianco Luno, 1923. 30 pp.

This study of statistical methods is aimed at securing economy of time and effort in gathering and presenting statistical information. It was presented at the fifteenth session of the International Institute of Statistics in Brussels in 1923.

KOBER, GEORGE M., AND HAYHURST, EMERY R. Industrial health. Philadelphia, P. Blakiston's Son & Co., 1924. lxxii, 1184 pp.

This volume is a revised and extended edition of Kober and Hanson's "Diseases of Occupation and Vocational Hygiene." In addition to the list of contributors to the earlier volume, most of whom have been retained, the list has been increased by a number of new names widely known in their special branches of industrial health. Most of these new contributors have added new subjects to the volume such as industrial medical services, industrial nursing, standards in sanitation, official and voluntary health agencies, etc., while the former contributors have practically all amplified and brought up to date the original material. preface contains an extensive historical discussion of the development of industrial hygiene in the leading industrial countries. There is also a review of labor and factory legislation in this country and of American literature relating to industrial hygiene and occupational diseases. The first section of the book deals with the general principles of maintaining health, and the second with the vocational hygiene of certain industries and callings which are particularly hazardous. Part III treats of specific occupational diseases with hygienic descriptions of the industries in which they chiefly occur. This part is divided into sections relating to occupational intoxications; occupational infectious diseases; occupational diseases due to dust, to fatigue, to abnormal atmospheric pressures; and electrical injuries and electrical shock. Part IV is of a more "medico-technical nature" and relates to the systemic occupational diseases such as affections of the eye, ear, and skin; diseases of the blood, circulatory system, and kidneys; and cancer. Most of these must be carefully differentiated from the same disabilities which are due to other factors than industry. Part V covers the general principles of industrial health administration, including discussions of mortality and other vital statistics, the methods and scope of protective legislation, the work of women and children, and the administration of the United States employees' compensation act. The appendix contains charts for analyzing industrial health and occupational disease data. There are extensive lists of references attached to different chapters and there is both a subject and an authors' index.

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Leiserson, William M. Adjusting immigrant and industry. New York, Harper & Bros., 1924. xv. 356 pp.

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This volume is one of a series of 11 Americanization studies financed by the Carnegie Corporation of New York. Among the subjects treated in the above publication are industry and Americanization, finding a place in American industry, management of immigrant employees, training the immigrant workers, organized labor and the immigrant, the Government's responsibility, immigrant self-help, and special problems of the woman immigrant worker. In the final chapter there is a discussion of the adjustment of the immigrant to the conditions of American economic life.

NATIONAL INDUSTRIAL CONFERENCE BOARD. A manual for mutual benefit associations. New York, 1924. iii, 48 pp. Research report No. 66.

This report supplements research report No. 65, "Experience with mutual benefit associations in the United States," which was noted in the Monthly Labor Review for February, 1924 (p. 256). The factors shown by the former study to be of importance in securing the success of these organizations are summarized in this report for the use of employers and employees who are considering establishing mutual benefit associations.

NATIONAL SAFETY COUNCIL. Proceedings of the twelfth annual safety congress, Buffalo, N. Y., October 1-5, 1923. [Chicago?] 1924. 1166 pp.

A brief summary of the work of the congress was given in the Monthly Labor Review for November, 1923 (pp. 175, 176).

People's Yearbook and Annual of the English and Scottish Wholesale Society (Ltd.), 1 Balloon St., [1924]. 368 pp. Illus.

Contains a review of developments in the field of cooperation, and information on the subjects of the relations of cooperation and labor, the "industrial labor movement," housing, and general economic subjects. The cooperative movement, especially that of the United Kingdom, naturally receives the greatest amount of attention. Certain statistics of the movement in Great Britain, Austria, and Portugal, taken from this report, are given on pages 203, 205, and 208 of this issue of the Monthly Labor Review.

PLAN OF NEW YORK AND ITS ENVIRONS. The chemical industry in New York and its environs, present trends and probable future developments, by Mabel Newcomer. New York, 130 East 22nd Street, 1924. 49 pp. Economic series, monograph No. 1.

The committee on the plan of New York and its environs is making a study of social and economic conditions which affect this great area having a population of nearly 9,000,000. The purpose is to make more adequate provision than has been done in the past for efficiency and convenience in all forms of industry and business and for better and more healthful living conditions. This pamphlet on the chemical industry is the first of a series of economic and industrial surveys of the 12 principal economic activities of the metropolitan region, showing the existing location and importance of the activity, growth and movement during the past 25 years, and probable future demands of the industry upon location, space, and workers.

ROMANET, EMILE. Les allocations familiales. Lyon, Chronique Sociale de France [19227]. 20 pp.

This pamphlet gives a brief account of the origin, functions, and advantages of family allocations. The last few pages contain practical information concerning the establishment and administration of a compensation fund for family allowances.

Sells, Dorothy. The British trade boards system. London, P. S. King & Son (Ltd.), 1923. vii, 293 pp.

A summary of this study is given on pages 99 to 101 of this issue of the Monthly Labor Review.

Wood, Edith Elmer. Housing progress in western Europe. New York, E. P. Dutton & Co., 1923. viii, 210 pp.

Reviews the progress made in providing working-class housing in Great Britain, Belgium, France, Italy, and Holland, dwelling especially upon the extent to which State action has been considered necessary, and the different methods by which State help has been made available. An appendix deals briefly with housing legislation and developments in Spain, Portugal, and Switzerland.

The author points out that the provision of homes for the lower economic strata, whether these be made up of industrial or office workers, has been taken over as a public utility pretty generally throughout western Europe.

"The machinery for handling it as such is fully developed in England and in Holland, and is in process of development in France, Belgium, and Italy. Each of these countries proposes, within the lifetime of the present generation, to abolish slums and near-slums and to rehouse its working population under con-

ditions that make for health, efficiency, and contentment."

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In Great Britain and in Holland, the two countries which have done most in providing homes for their people, municipal housing seems to be the approved form. In France the work of the Public Housing Offices, which corresponds to the municipal housing of Great Britain, is well started. Belgium and Italy work through a combination of public and private agencies, but these have not been in operation sufficiently long to show whether they will be able to handle large-scale housing as effectively as the wholly public agencies of the other countries have done.

Theoretically, housing standards are much the same throughout the countries studied. "In practice it is highest in Great Britain, where the bathroom is a reality and not simply an ideal, and where the cottage in a garden is being built even in great cities. In Italy and France the large apartment house is still intrenched, and in Holland and Belgium the small one. The cottage in a garden is also being built extensively in Holland, Belgium, and France, and is making its appearance in Italy."

An appendix contains a bibliography dealing with housing conditions, before

and after the war in the countries studied.

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